FDWA GROUND WATER MONITORING PROGRAM

APPENDIX C

OCTOBER 2009 SAMPLING EVENT

FIELD BOOKS

(On Disk)

FWDA K/29/08 MMasten TMW18 0900 clear cold FWDA 10/17/08 GW monitoring M. Master TMW 25 clear 50° - pump stuck in PVC casing @~ 75' below Toc. 1030 setup 30 psi 1040 begin purge 10s purge 60s rchg 1054 8s purge Gos relig steel cable most likely wapped around pump, wedged in between pump + casing, will atemp to extract this afternoon / tomorrow

1046 20 gal 10/29/08. Master, clear 60° 5 FWDA 1047 temp 13.43° SpC 5.54 mS/cm DO 10.64 mg/L pH 7.72 P2.56 NTU 1030 Hand - dug well West of FupA property 0,75t standing H20 in 5,5 diam 1031 begin parge w/ electric pamp 1049 25 gal 1035 purged 5gal 1053 30gal Jemp 13,47° Sc 5,54 mS/cm DO 12,46 mg/L PH 7,46 2.87 NTU 1037 1057 35 gal 1101 40 gal 1105 45gal 109 50 gal 1039 logal 2 temp 13.44° S.E. 5.54 mS/cm DO 5.89 mg/L pH 5.06 PH 2.44 NTU 1042 1113 55gal 1116 60 gal 1120 65 gal 1042 15 gal 1123 70gal

6 1126 pH 7.34 10/31/08 FWDA Hand-dug Well Jemp 13,53° Soct 5,54 MS/cm DG 8,29 mg/L 1,28 NTU DTW 20,55' Does not appear to have recovered after purging, small amount of water in bottom, same as on 10/29. 1130 80 gal 1131 pumping air small amount of water left in well. Not recharging, may be overnight. Total purged ~ 80.5 gal

8 27 Jan 2010	FWDA water levels	27 Jan 2010	P P
well_ID	d, snow on ground DTW (feet)	Well IP	levels DTW (feet)
TMW35	43.28'	TMW 17	ZIST docked
TMW33		TMW 19	42.09
TMW 34	415,16	TAWIG	54.04,
MW 22D	41.56'	TAWIT	61.48 [ZIST Jock
MW 22S	41.44'	TAWII	66.18
MW 20	44.83'	TMW15	62.10'
TMW 10	36.99'	TMW14A	
TMW 08	736.44'	TMW29	57.15'
Wingate 91	14.41'	TMW04	56.35'
MW02	38.83'	FW12	dry
MWO1	41.86'	TMW 37	24.95 '
MWO3	45.85'	FW13	dry
TMWO7	47.85'	TMW02	55.10'
TMWOG	46.88'	TMW31D	35.11'
TMW21	50.45'	TMW31S	35.24'
Wingate 90 Wingate 89	13,58' 15,25' 39,20'	TMW 32 TMW 03	38.24' 56.82'
TAW 25 TAW 13 AW 185	69.82' dry	TMW22 DMW36 TMW01	48.85' 44.43' 35.96'
MW ISD -	contia ->	T/1W 05 T/1W 30	dry 38,80'

Location FUDA Date 10-12-39 Project / Client GLD Sampling Begin Diannual well sampling

Location _____ DA Date 10-12-09 Project / Client _____ GW SAMpling Location FWDA Date 10-10-6 Project / Client GW Sampling DODYH 4 Measure water levels LOEN NO. Time 13/5 Sunny, Med 51 65-70° Grant Kolbpreze TMW-18 1410 54.28 Septh to 42m 40p 07 new Bennett punp case Well No Time WaterTable TMW-21 50.42' 1320 TMW-11 1415 66,58 Mw-D2 1325 38.68' TMW-17 62.05 1417 MW-Q1 41.72 TMW-15 1330 64.30' 1420 MW-Q3 45.72 1335 FW-Q7 1430 DRY MW-225 1340 41.32' DRY FW-28 1435 MW-22D 41.45 1342 42.14 TMW-19 1445 MW-185 DRY 1350 TMW-16 55.31 1450 MW-18D 42.63 1347 FW-10 49,20' 1455 MW-20 1355 44.74 TMW-Q1 35.74 1500

Gu Sampling Location FWDA Location FWDA Date 10-12-07 Project / Client GW Sampling Project / Client _ Depth b Well # Time hater Dunna, very preser, 55-60°. Grant Kalb TMW-Q5 1503 PRY 48.79 Measure remander of water TMW-22 1515 levels in admin tarea and TMW-Q6 1520 46.76 FW31 at fortwinggta cartinout TMW-&7 47.68 1522 POPH & TMW-13 59,92 1535 Well No Time Water TMW-23 1540 45.58 FW31 0930 41.41 TMW-24 39.28 1600 TMW 14/A 62.61 0950 FWI 1000 DRY 2nt Kalk FWID 1005 Bail Well dry Hyve at Fulo to bail it dry. Removed 21 April of water, About 1'of water is bottom of well

Location FWDA Date 16-13-25 Project / Client GW Sampling Location FWDA Date 10-13-09 Project / Client GW Samp Ling Leave Fw10 et 1030 Le Ct Site at 1705, Trant Lolle MW-23 1525 10-13-09 Arrive at 1525 to bail Approx 44 of water in Casing. Measured 3 sets of Parameters White backing dry. Very Sity water, Bailog Dry geter removed of 4.5 gal. Left site at 1610. MW-22 1615 10-13-09 Bail well dry c heasure Parameters Measure 3 sets of parameters before well went dry after removal of legal; p removal of Water, was clear, at frist, but be game clou ier As bailing progrossed water here) beclined

Location FWDA Date 10-14-09 Project / Client GW SAMPLING Location FWSA Date 10-14-07 -Project / Client GW Sanpling Sunny Mod breeze, 350, Grant Kolb 0920, 10-14-09 IMW-29 0920, 10-14-09 Paraneters stable after measuring them for 47 min. ample nome = TMIN8/192009 water level = 57.22 ample collection time = 1300 gliecked VDCs (2, 40-m/ vials) XD = 61.65, = 4,4 of water Pung dry a measure paraheters. Left well at 0940, for 10 Perchlorate dissoped netals menutes to open Date 51. ptal metals ND3/NP2 Bailed An after removal of 3 gal. Magslered 3 sets Sanpe # = TMWA 102007 For USGS, collected Jarameters. Cloudy 1015. Major jous (1-l plastic) TMW-Q1 1030 10-14-09 150 Topos (125-m/glass) Initial HzD/evel= 35.94 Find water Pleul = 36.05 Set up on well. Equipment Malfunction: Flow thru Cell is broken & inverter box Joesn't work. Don't begin Clear up a leave site at 1415. So to Blog 31 to Pagk Samples & Dechains 104 Custody - Frant Kollo pumping until 11:40.

Location FWDA Date 10-15-09 Project / Client GW Sampling Location FWDA Date 12-15-078: Project / Client GW Sanpling Sunny, It breeze, 60°, low humidity. Grant Kolb total metals dissolved the tals Alorin / Juran (2, 1-lambor) Shigh explosives (2, 1-lambor) Sample # = KMW29102009 KMW-07 1015 10-15-09 USGS Samples byt up on KMW-09 to low Major cons a coofoper flow sample. Initial water level = 39.20'. No 215T. tinal water land = 39.20' Began measuring parameters at Leave site at 1310. 104/5, Very clear water. Parameters totable after 44 CMW-22 1315 10-15-09 Phen. Phengo = 5 sec, Rech = 30 sec, Bail well dry a measure Press = 35 psi, Flow = 96 MI / prin : Stable water lavel thruous purgeng. parapeters. Antial water Placel = 114.50 Barely 6 of Bailed dry after removed Sample collection time = gf ~ 1 gal & the sured 3 Lett Site at 1405. 1200 hrs Collected VOCS C2, 40-ml vials J Perchlorate NO2, NO2

Location FWDA pate 10-15-09 Project / Client GW Sandling Location FWDA Date 10-16-09 Project / Client GW Sampling KHO Surry, no cloude, Calmbracce, 55-60: Grant Kolb 10-15-09 CMW-23,1410 Bail well dry & meagure parameters, Initial parameters, Initial paren level = 97.14 Dailed ~ 1.75 ogle bodore well went dry. Measured 1 Mw-10 0845 10-16-09 In that water lende = 166.93'. Bail well dry and measure parameters, 3 sets of panameters. Dauled approx 2 gal of water perore well wate Clean thater get initial, withdrawal but final dry. Measured 3 sets Speradeters. Many produced very sith yaterproblems w tangled bailer timere, whech boy sured most of my time at the Shant Lalle 1035. CMW 22 1040 10-16-07 Collected the following at sample time 1045: VDCs C2, 40-m/ males but one vial is blectuo + air bubble could not

Location FWDA Date 10-16-09 Project / Client GW Sampling Location FWPA Date 16-16-0787 Project / Client GW Sampling be displaced) Water Jeuel Alungod NO3, NO2 Jissolved netal Total hetal Sample # CMW22102009 Left site at 1115 OVER 0.3' allowable at Once w Setting of R= 60 sec, Purge = 5 sec, psil = 40. Deaded to attempt to punge well dry a collect sample the Next day, Eventually increased Purge = 10sec, Rech = 20sec + Flow = 220 mil min. Decided CMW23 1120 10-16-09 Collected the following w Sample time = 1130 to substantially reduce purge to 4, sed, increase rech to 75 Sec a see if drawdown would stabilize VOCS (2, 40-M/ Vials) dissolved metals neither linets, + 100 was Sample # CMW23/02009 30 ml/min. Drawdown did Stapleze within limits & het site at 1135 decided to collect samples. (MW25 1145 10-16-09 Low flow sample CMW25, mitial water level = 36.48 Sample, fine = 1500 6 llected VQCs (2, 40-ml vials) NO3, NO2 dissolved metal Kegan pungo = 5; rech = 60 & ps; = 40 to tal metals

Location FWDA Date 10-16-07 Project / Client GW Sampling Location FWDA Date Project / Client GWSampling Pesticides (only one, 1-lander) Diogin-Guran Cone, 1-lander) Sample # = CMW25102009 Sunny, Mod preeze, low humidity 55-60° Grants Kolb IMW-\$6 0910 18-17-29 Sample collection sottings more Press = 40 psi, Plinge = Low Slow purger sample Inhal H20 Perel=47.12 4 Sec, rech = 73 Sec, How = 30 mil min, Parameters Degan purgency at 0930 2 began Measuring parameters at stabilized w these settings 0950. Due to post flow, it topt a long time to fill the flow through cell with water This weld is an ideal well for a Bennett punp, Long water column & nearly With Pross = 30 pai, pech = 60sec, pungo = 6 soc, the Abu hate and s impossible to stabilite draw-36 ml/ma a drawgown down & still have a reasonable flow pate for Stablized within the allowable Dampling A Bonnett Sump Would Willinstely Save Thousands Sample collection time = 1100 h in labor casts on this well. Coffected: VDCs (2,40 m (vials) NO3/NO2 Pack up and leave site at 1645 Final water level = 53.11 total metals dessolved netals 1 Anat Valk SVOCS (2, 1-l amber

Location FWDA Date 10-1709 Project / Client GW Sampling Location FWDA Date 10-19 g Project / Client GW Samplens Righ Explosives (2, 1-lanka) 0815 TMW22 16-19-09 Morning began Buescast spitting have at 8720, the time got to the sell, the skywas sunny. Sample # = TMWR6162009 For USGS, collected isotopos & mayor wors Mod to high Greeze, 20+ Mah winds, Dry ground. Grant Kolb Find water level = 47, 39" Pack up and leave site Pump was to moved from well, Well had been Grant Kolk sailed dry last meek. Bailer Still hanging in mell. Water found D barles in well = 48.94 Collect samples until well bails dry, Water is Very cloudy. Sample collection time = 092 Collected VOCs (2, 40 ml vials) ND3, NO2 parchlorate

Location FWDA Date 16-19-09 Project / Client GW Sampling Location FWDA Date 10-19-09 Project / Client GW Sampling Topt well over Drien to GII to a metals diss/ved metals high explosives (2, 1-lamba) Stocs (2, 1-lamba) Very clear water is Suthis odor, Sample collection time = 120. Collected FOF USGS, collected iso topeo VOCS (2, 40-MI Vials) & Major ions. NO3, NOO Leave site at 0905 Archlorate dissolved metals TMW24 10-19-09 0920 Low-flow Sample TMW24. Initial water -level = 39.51. total metals Pesticides (2, 1-lamber) Total explosives (2, 1-lamber) Initial rock of 50 sec a purge For USGS, collected isotopes of SSEC w possene of 30 DE Dropped water level rapidly a mayor ions. Increased reck to 75 Sec. 4 The pump in this well needs to be pulled a the Praw down was then Stable mell converted to a bailer usell like TMW-220 MW23 during parameter heading -nents in How rate = 25 & spent rearly 6 pro or This well, whigh is m/ men. excessive, a the tow, s only

Location FWDA Date 10-19-09 Project / Client GW Sampling Location FWDA Date 10-19-09 Project / Client GW Sampling 25° MI/Min. Pack up. Final level = 40.55 Leave site at 1505. For USGS, Collected 15040/05 & Major, 02 Pack up I leave site at 1605 TMW23 1520 10-19-09 Grant Kolb Collect Samples w bailer. Well was premously bailed dry operaneters measured. Water level = 45.72', with Jory middy upp. Schaple collection time = 1600 Collecte (2,40-mi viais) archiorate dissolved metals total metals two Resticides dioxin- Kitan

Location FWDA Date 16-20-09 Project / Client GW Sampling Location FWDA Date 10-20-09 Project / Client GW Sapping Sunny, but rain producted, TMW29 0850 10-20-09 Very breezy w 20+ mph winds, try ground. Grant Kolb Collect samples with bailer. Well was promouse Aurgod dry a parametera masuro on 10-141-07. MW225 0810 10-20-07 Collect samples a bailer Sample time = 0900 Well war pierged dry ? Paraheters measured Collocted DCs (2, 42-m/v, als) NO3 NO3 premously. Perchlorate total metals Sampletime = 0830 Collected VOCs 22, 40ml vices GRO S2, 40ml vices clissolved metals For USGS, collected isotopes a major ions. NO3, NO2 dissolved metals Leave site at 0910. total me tals Thull 0915 10-20-09 Low-Gow Sanple Initial water [evel=66.61 perchlorate. bailed well dry reft site at 0835

Location FWDA Date 10-20-69 Project / Client GWSAMALug Location FWDA Date 16-20-099! Project / Client GW Sanpling Half hour shutbour from 1330-1300 for lightning Using chart settings of 40000 rech & 10 sec surge Nouted in rapid dop of water level. appears ZIST was removed from the Atorn. Final meater level at 1315 - 66. 72. mell. aquesto setten go to 55 sec rech & 7 sec Averge - Gosi Obtained flow = 40 mil men & Leave site at 1320. no harther draw down. Grant Kolle Grandown was only 2, 0, 1 bot from initia wale level Somple collection time = 1120. Solected VOCs (2;40-ml v, els) NO3, NO2 perchlorate dissolved metals total metals HE 22, one-l diorins-furans) amber Collected for USGS. isotopos + major ions.

100 Location FWDA Date 12-21-09 Project / Client GW Sappling Location FLODA Date 16-21-39 Project / Client GLO SOMpling MW225 0800 10-21-09 - Paraneters stabilized after theasuring them tou 104 men. Overcast, wet ground, 45 -50°, calm wind Sample collection time for Mu 22D = 1100 Collected GC and premary Confinue Sampling Mierzos until it bails and. set. GROS 22, 40-MI vials Sample collection time=0815 DerchTonate Collected total metals DRO 3. only one, 1-lamber DRO 3 due to poor well volume cassolved metals * 1, 4- dioxane (1, 1-lander) DRO 7 SVOC Grozin Guran 2, one-liter Well Darled dry, Loft Sites amber bollow Pasticidas QC Samples Unly NW22D 0940 10-21-09 Rissolved metale was field Low-flow Sampling. Let hitered. Conditioned filer up on well at 0840 Hrough Silker before Logen Aurging at 0855.

2 Location FWDA Date 10-21-09 Project / Client GW Sampling Location FWDA Date 10-22-03 Project / Client GW Sampling Frost on ground. Surny, cold, 30°, no wind, dry to slightly damp ground. Grant Kolb Filter specs - mfg by Geotech, 0.45 y, Lot # 73050004 Was increased 13 6 set, MW225 0755 10-22-09 in creasing flow to 125 m1/xm. Bail sample from well until. it bails dry. grandque man munimal, 9 draw Jewa stabilized Sample collection time = 0800 rapidly. 1400 = Sample collection Thre for blud dup FW&2702009, posticida Jonly one doxin-fieran & 1-liter mgh explosions) anter low well volume Final water level= 41.52 at 1550 hrs. Left site at 0820. Pack up & leave site at 1555. MWQ2 0825 10-22-09 Grant Kolt Dail well & collect samples Well was premarshy bailed

Location FWDA Date 10-22-019 Project / Client GW Sampling Location FWDA Date 10-22-09 Project / Client GW Scappling Collected me asured. JOCs (2, 40-ml vials) Janple collection time =0830 NO2, NO3 ollected NOCS (2, 40-ml vials) NOS, NO2. perchlorate to tal me tals dissolved he tals. perchlorate ME ? hero, 1-lambon passicides ? bottles each total metals dissolved metals HE 2 two, 1-l pesticides 5 amber, bolton For USGS, collected isotoper a mayor wons. oach For USGS, collected isotopes Left site at 0935. 4 Major jons. TMW13 1000 10-22-09 heft site at 0900. Sat up on TMW13 to low-flow Sample. Initial water love MW&1 0905 10-22-09 Collect Samplex by bailing, Well was pleniously puredo Parameters stabilized after megsuring them for 44 min. masured: Rech = 30 sec, punge = 7 sec, pressure = 38-40 psi, Now nate Sample collection time = 0930.

Location FWDA Date 16-23-019 Project / Client GW Sampling 106 FWDA Date 16-22-09 Project / Client GW Sampling Sunny, Cold, 20°F, no breeze, dry ground. Grat Kolb = 70 ml/min. Drawdown way stable. Collected collection time = 1130 MW225 0815 16-23-09 VOCs (2, 40-ml mals) Collect USGB Samples (150 topos + Mayor cons) W bailer, Sample turo = 0815. NO3, NO2 perchlorate dissolved metals Leave site at 0825. total metals Goris- Juran Two, I-liter PCBs Jamber bottla MW20 0830 10-23-09 lack Low-flow purge. Begin For USGS, collected isotops Link in well gas in hose. Link in well gas in hose. Initial water level = 44.88. a Major ioas. Final water level = 60, 11 at 1240 Pack up & leave site at 1845. Parameters Stable after 59 min of purging & heasuro-ment, Purge = 6 Sec, pech = 60 sec, Aess = 38-40 psi, Flow = 70-75m//mi Deliver Sampler to Fed EX a pack samples renainder of day de AValla Sample collection time = 1000

Location FWDA Date 10-23-29 Project / Client GW Sampling 108 Location FWDA Date 10-23-09 Project/Client GW Sampting Collected Parameters Stable after VOCS 3 two, 40-ml vials each GRO 3 Pressure = Bopsi, rech = 55 soc, purge = 5 sec, flow = 60 m1/min NO3, NO2 perchinate Sample collection time = 1400 to tal metals dissolved metals Collecte d NO3, NO2. (2, 40 m) vials) two, or liter SVOQ DRO perchlorate for each Pesticides dissolved metals total metals HE - 2, one -liter amba bottle For USGS, collected isotopes a mayor ions, For USGS, collected isotopes Final water level = 45.12' at 1225 hrs. a major cons. at 1505, find water level = 46.13' Pack up a loove site at 1230. Packup and leave site at MWQ3 1235 10-23-09 bow - How sample. hant fold pritial water level = 45.90 Decen Duraca at 1247.

Location FWDA Date 10/24/091 Project / Client GW Sampling Project / Client CU Sampling Sunny, no breeze, 40-45°, dry ground. Grant Kolb ollecto VPCS (2, 40-ml vials) NO3, NO2 perchlorate dissolved metale TMW21 0850 10-24-09 total netals In hat water level = 50, 49' HE - Huro, 1-liter anterbottle ou you sample. For USGS, collected isotopas Begen punging at 0910, W pross of 3000, could not got well to Stow. Increased P 1 Major ions. Final water level = 52.0, at 1155. Pack up & leave site to 40 psi a the says before well formed. Then reduced at 1205. P to 30psi " left pech at 30 sec * 7 sec, Prawing FW12 1210 10-24-09 down water level with It stobilizes, Obtained Dail and collect samples un 6/ well runs duy. After Stable after reasuring parameters for 87 min. Prandour stable at 52.01 Several bailer with drawals, filled one parchlorate bottle Jample collection theo = 1210 Collected only perchlorate. Well barled duy Leave site at 1275. Sample collection time = 1100

12 Location FWDA Date 10-24-09 Project / Client GW Sanpting Location FWDA Date 10-26-245 Project / Client GW Sanpling The RS 100 10-2407 Check water level in well. This as remains ary. Leave site at 1225, J Jupin, cold = 25°F, no breeze, Grant Kolb TMW15 0840 10-26-09 Grant Kollo Low Son sample. Collect QC set & blind dup. Initial water level = 64.33 Began purging at 0905. Initial settings of P= 55pi, rech= 30 see, a plengp=12 sec produced flow of >120 m1/me, naked chandown a gusheng Mater at end of Surge. Impediately reduced pulge to 8 sec a P to 48 ps. Increased rech to 40 sec. Flow dequard to 60 mil men, but draw down ngse) a became stable Parameters statilized

Project / Client GU Sampling Location FWDA Date 10-26-09 Project / Client GW Sampling after measuring them for 40 VOCs (2, 40-M(Vials) Noz, Noz perchlorate Sample collection time for MW15 primary & GC Sects = 1000 hrs. min. dissolved me fale total netals HE SVOC 7 two, 1-liter ambér pottles For QC Set, collected VDCs (2, 40-M/ vials) perchlerate Nozi Noz duxin- Juran) each Blind dup = FWQ5102009 W Sample collection time = 1400 hrs. to tal metals chasolved metals (G/keedin held) 1,4- dioxane (1, 1-l amba battle) SVDC Fer USGS, collected isotopes o major jons. dioxia / funan & two, 1-lamba explosives Final water lovel at 1445 = 64.41. Leave sik at 1500 Disposeble Gilter Mita by Geotech, Lot # 730 50004, 0.45 micron Frant Kolle For primary set and blind dup, collected

Project / Client GW Sampling Location FWDA Date 10-27-85 Project / Client GW Sampling Overcost, cold, 230, very Jos punary & QC Sots = 10/5. Windy, dry ground Grant Kolb For QC set, collected Vocs (2, 40-m) vials) NO3, NO2 total metals TMW-14A 0820 10-27-09 Long Flow Sample. Collect primary & QC set dissolved notaly - filed in field applied applicate 24- djorano Cone, 1-laukon) SUDCE Ztwo,1-1 Gxplosivos Zaubor Initial water level = 62.41 in ZIST undocked. Pulled Cap from well 1 15 Fted hoses one foot. Flow vasiple Cioxins - Furans) bottles Desolved metal filter mig by Sootech. 0,45 micron. Lot #= 73050004. Pumped 100x1 of HzU thru filter before collecting sample. 13 discharge hose to thow thru cell Roset cap of deck began purging Did not deck ZIST water 0900, by which For TMWIGA Primary Det time water level had propped 1.31 feet. Docked ZIST gt 0900, and water level then and blind due FWQI, collected VOCS (2, 40-MI Vals) Stabilized. NO3, NO2 Paraneters stable after to tal metale 70 Ann. dissolved metals Sample collection time SUDCE - two, 1- lamber bolltes

Date 15-004-09 Location FWDA Project / Client 15 round water Monitoring Grant Kolb 0930 - mostly survey, 570°F, wind-5-10 mph & S. Carpenter, E. Kolgstw J. Reale CMW 25 36.47 levels in 03/00 97.15 CMW 23 CMW ZZ 114.53 Not mensured, burnied from CMW 21 resent storm events KMW 13 Dry KMW 09 39.21 48.54 KMW 12 45.56 CMW 24 32.24 KMW 11 166.84 KMW 10 24,25 CMW 19 29.82 CMW 14 65.02 CMW 10 FW 38 Dry 38.95 CMWØ7 CMW20 Dry COVER broken Needs repair 13.60 - water 5/2 45.13 CASIN & COUCE CMW Ø2 CMW 04 45.13 gw pepth neasuraments 1220- ended

TUDA		Date 2007 0	7 35
Location FWPH Project / Client Sto 63°F, MUS	ve Ubon		
Per 26 THW 25	WH DTI	W Pry 9.290	5 N
5MW 01 T=M 29	DTW		
THW 27 FW 28	DTW:	28.41 DRY	
t=w 27 TMW29	DTW DTW DTW	DR.9 57.09 55.00	
TMWOZ FW 13 TMW 03	DTW	DRY 56.81	
FW 12 THU 04	DTU	DRY 56.29	
FW 35. GMWOI	DTW	20,66 84,62	
EMW07 EMW03	DTW DTW DTW	99,21 28,99 31.51	
EMWOZ TMW IU TMW DO	DTW	36.83	
TMW 28 TMW 26	PTW DTW	(8.70	

Date 140070937 Location TMW03 Project / Client FWDA SUBSUL J Reale Semycling - 55°F, PC. Mostly Sanny 20°2 RH DTW 56.92 start 1240 Calipration Alepsi 800 2068 275ml/min studed statilization @ 1240. Firshed collectory parameters and started collections giv samples @ 1315, DTW 57.11 ft @ 13/5 57.08 pt @. 1327 Start Sampling 1315 Funch Sampling 1345 Final DTW 57.95

Location THWOZ Date 14007 09 Project / Client FWDA S. Wagner J. Deale Location TMW03 Date 1900T0937 Project / Client PWDA SUbguer Theale Sempling - 45°F, DC mustle Summy, windy 2020 RHP Semyeling - 55°F, PC. Mostly Sammy 20°2 RH DTW 55.15 DTW 56.92 Start 0995 start 1240 Calipration 801 10 076 55psc = 125m/mm Alepsi 800 ZOFE Z75mil/mm started stabilization at Struted statilization @ 1240. 0945, il ater is going back Firsted collectory parameters and Sown the well between started collections 3N samples @ 13/5, DTW 57.11 JE @ 13/5 57.08 pt @. 1327 Timish & fabrilization 1030 Start Sampling 1315 Fund Dru 57,05 1345 Started ed Sampling 1035 DTW 56.1 @ 1050 PTW Fund = 55.87 1120 complete

Location TMW04 Date 1400709 Location <u>EMWOI</u> Project / Client <u>PWDA</u> Surguer Project / Client DWDA Sugues 5052392460 DTW 56.36 1420 start calibration DTW 94:22 0950 started wellat 10 age 800 1504 800 50ps 260 ml/mm Van for Zomin Stabilized at 88.56 DTW at ZOOFG Bon 60psi at 145ml/mm tis necharging and holding water level funshed Calderation 505 Start Samyeling 1510 DTW 1510 757.44 Start Sampling 1040 Timeshed Tanyaling 1530 DTW92.7 start 6 on 300fb 60 jose 2 100ml Juin 93.6 105D at 108.50 ft sæmed to stafilise at n 150ml/mm at 113.5 ~ Toml/mm, wintmie muer -> 116/t Stoppe

Location EULVOZ Date 1500709 Project / Client PUDA SUBSUR Location EMW03 Date 160009 Surgen Project / Client PWDA Started purge at 1445 601 20000 DTW 31,59 Started Junge at 0900 DTW 28,90ft 1000 1200 60 psi 400 ml/mm ~ 200 mg/mm reduced THE DTW TUNE DTW 0910 36.05 73.50 IDIO to Jopsi Con 2061 ~ 150 me/inn Dropped to 32,85 after 7 minutes, Pringe Well granted @ 1955 0920 43.72 1020 78,20 0930 49.90 1030 81,70 0940 56.20 1040 8290 0950 62.71 84.91 1050 1200 10075 50 psc. 350 mm 1000 68.57 96.30 1100 87.10 1110 1140 2 mina foot 106-38 ~ Zhors 1150 1120 slowed to simma foot 1130 1200 Started stabilization at Stop @ 1800 106,00 final 1130 flow rate of 90 ml/um gave steady water level at \$7,20 160CT 2009 0940 77.326t recharging at 5 min 20.16t Start Serugling 1230 Final OTW 87.80 20 off 6 on ~ 7 am/m

Location EMWOZ Date 1600709 Location TMW08 Date 1707 09 43 Project / Client FWDA Silloyner J, Reale Project / Client FWDA S. Uagun DTW 36,65 starting water lovel. 70,33 DTW 1505 Calibrated start Schupling @ 1540 300ml/um 1010 Started Statelization 1201 Word Gopsi 5 on 2000 30 psi ~ 50 me Juin Swes stable level. 10 45 started Sampling 36.70 Gual DTW Punished 1610, 88.03 DTW Finish 1145 -

Location MW2ZS Date 1700709 Project / Client PUDA SUGAW Location TMW26 Date 17000 45 Project / Client FWDA SUGMEN 1245 started bearing Started Sanpling@ 1310 DTW 26.66 and took 3 stabiliogston 700 10ago 30psi . Funched Sempling 1320 readings 1.3 lot water

Location THWW Date 1900T OG Project / Client PWDA SWORM Location THE 28 Date 190709 Project / Client PUDA SUBSUL 75°F 10-2014 RH 2090 75°F 10-20mph RH2020 Started Stablezationa 1310 C. 100 ml/ium Starting DTW 36.99 Funch DTW 37.20 started & fablization at 1940 at 60 ml finin 45 off 3 on 30 psi 60 ml/in completed @ 1600 and started Sampling Start Sampling at 1345, 25044. 500. 30psi v 100 me/min Funish 1445 37.200000 start Drw 19.10 18.83 Truish DTW 19.10

Location CMW04 Date ZOCTO9 Project / Client FWDA Scilegues Cloudy, light vain 60°F 10-20mph Location CMWOZ Date ZOOCT 09 Project/Client FEUDA SUagner PC 60°F 10-20mph 2020 RH Started Stable granat 4020+ RH 0945 at 140 ml/mm started stablizationat 30psi 2004 Soh completed Stataluzation @ 11 25 Sampling (150 in 30 mm. Starter gaupling 20076 600 40psi 110 ml/min at 1030 20076 60030psi ~ 160 ml/inn completed sampling at DTW 14.62 Jurine Steds + sampling completed ~ 1100 1220, DTW. 45,12 Hunough Statechization and sampling

Location CMWOT Date 20 OCT 2009 Project / Client PWDA SUBSUR 50°F WMAY CLOUDY Min Location CMW18 Date 2100TO9 Project/Client FWDA Subsuch J Hug 50°F OVERAST Calm 5020RH mital 39.2 maintained Started Stablezation 0930 completed @ 0948 Heroughout simpling and parameters every Sunnites Stadization. Started sempling @ 1000 Started Jebulization @ 1310 Started anyoung @ 1330 Starting DTW 41,05 @ 1000 DTW 41,18 20076 60n 40psc 290mlin 120fg 600 34 psc 210ml/min completed @ 1445-Tinal Drw 46.36 CIMULT -Bad Pump, only air after a leteroquator

Location KMWID Date 240700 Project / Client FWDA SURGENER SHUG 21 OVERCAST, 557, Light com Location CMW 14 Date 210009 Project / Client FWDA Started Staplization at 1220, ewey 3 montes 10gg 12 on 250 cm/im Nand Vailed gamples 400 sample time started campling @ 1295 2200709 DTW 16.23 Start collected VOCS and 16.23 finsh. Perchlorate @ 0845. Full Balle

Location CMW 24 Project/Client PWDA SUbgran JRale Clear 55 F, 2020RH 5-10 Location KUWN Date ZLOCT OG Project / Client FUJA SUDSpen J Reale Clear 35°F, 2020 RH Started Stakenzation@ Started stabilizationa 1200 and sampling a 0900 DTW 32.40 at 1230 \$TW 46.95 and 160 ml/mm after 20mm nasht moved much. well stablized and Started at 100th 1300 and 80 psi, Eanylus DTW = 33, 23, Sunce pecame less and less This well was purged as flow was song back down today Jeinip. a week ago will start Put 2 on way theres Sampling @ 0930 and with no change even after turing around. to frips and will bland Reconfigured meter to DTW = at fushed 10 off + 30 on to get enough wantan 160 ml/mm FWO & sampling time 1045 Timal 48.08 DTW 1430 at 33.656t it was relanging at ~ 160ml/min

Location TMW 25 AGAIN Date 230CT OG Location TMW25 Date 220009 Project/Client FUDA SWagnen J Neak Clar 50°P Lighturnd 202RH Project / Client PWDA Sutguer J Peale Clear, Calm RH 20% Started Stablization 1530 and Sampling 1545 Started Stabilization 1006 Maintained constant DTW 42.72 during Stalahater Starting DTW 37.90 120ml/m atendor Staled 41.30 at 1555 41.55 9 [60ml/m 3000 (e on 30 psi Stand - anyling @ 1030 at 80n 3000 30 psi only 4 anylis This well was puger the previous week. complete at 1040 DTW 42:72 Final DTW 47.73-1600 need to resemple as vater Quiel propped more than 0,3 during Stabilization

Location MW - 18 D Date 23 007 2009 Location TUNI7 Date 230070959 Project / Client PEUDA SUbgun Project/Client FWDA SUBGAD Clear, light and, 65°F 207RH Caar, 10-15 mph, 2020RH 557 Started Stabilization @ Started Stabilization (445 completed 1610. DTW 62.10 has not moved 110 completed 11 28 DTW. 42.65 nochange Jung stab. 30 og 30n Jopsi ~ 100 ml Juni 20048 3,000 (eZpsc ~ 70mg. 1510 started sampling Sampling time 1140 Sample 1510 2007B 6 on 67 psi 2 100ml completed 6 potiles 1530 in 2004656 on 40psc Settled to 4000 Gon 30psc 1243 - 12 - we me/min but ranout of water. 4006 400 30 psc 1300 =1 l completed 1415

Location SMWOI Date 24 OCT 09 Project / Client PWDA SULAGNEN Clear, calm 50°F 20% Rtt Location TMWZT Date 2400709 Project/Client PWDA SUBQUE Clear S-DMph 35°F 2020RH DTW 28.50 pump to 31.50 DTW 29 started at 10 off 6 on 40 psi, pump Dott bon 35ps v 300ml/mm plimp fown to 29.90 and Waintamed Husorah Stabilization at a 140 mlm down to 32 At 300A 500 mantamp level ~ 20 ml/mm completed stahlization. Sample time 1130 at v zoo we/un completed Company & 1200 29.90 Diw @ 1005 Start Sampline @ 1010 maintan 32/1 Driv Level, water Gwel came up to 20.8 of during 20046 600 35psc @ 120 Wantimal 3 tot then Wantimal 3 tot at 2500 6 on 250 50 finch of anyone a 1070

Location CWW 17 Date 2600009 CHW 10 Date 26 at 09 Project/Client JWBA SILLAGUEN J. Hug Clar 45°F 5-10 mph ZU30 R.H Project/Client PWDA S. Wagner J Hug Clear 45°F 10-20 mph Ze Zo RH Set up and was able to sample time 1015, hand Set up and was able TO get ~ 500 ml before numie, outof water 3007 & on 30 ps. This well bechanges very slowly. Sustin pinged that well by Tsallons & water guille The precisions walk ~ recharge vaters very very slow Bailed samples except for "2 l, will come beel Daten to complete, could not get reater level cus parler was in well. Jun inducted that when the well was harded try they took crit 7 sal 4 Saup ago. Recharge was N 12 sallons in Aday suggest collective parameters and sampling in one event, l, thousand all 1 250 We of nerely Well was underder Sometung 16.51 Ecimple 1100 event. 16.5 well would not in Nales The simall 150 1030 the 2 nows Truck to set morei Seems that puple. 2700 ON

1150 27 OCT 2009 setupon CMW19, took 1 L sample for USGS. Then pulled pumpond L USG5 Sample pid take aater level hefore pulling pump buit sid not f write it sown. war 27.54