

August 24, 2015

Marilyn Long, Project Manager TCEQ Superfund Section, MC-136 P.O. Box 13087 Austin, TX 78711-3087

Re: Operations and Maintenance Inspections Letter Report Rockwool Industries, Inc. Federal Superfund Site 1741 Taylors Valley Road, Belton, Bell County, Texas. TCEQ Site Identification Number SUP033

Dear Ms. Long:

This letter summarizes the operations and maintenance (O&M) inspections performed in January 2015, March 2015, and June of 2015 by Daniel B. Stephens & Associates, Inc. (DBS&A) in order to complete the assigned tasks outlined under Texas Commission on Environmental Quality (TCEQ) Contract 582-14-40670, Work Order # 327-0040 at the Rockwool Industries, Inc. (RWI) Federal Superfund Site located in Belton, Bell County, Texas. Specifically, DBS&A performed the work in accordance with the February 11, 2011 Rockwool Industries, Inc. Superfund Site O&M Plan (DBS&A, Feb 2011); the January 17, 2014 Addendum Numbers 2 and 3 to the April 26, 2011 Rockwool Industries, Inc. Federal Superfund Site Field Sampling Plan (FSP2 and FSP3) for Operations & Maintenance Activities (DBS&A, January 2014); and the Wilder Construction Company MatCon® Operation and Maintenance Plan for Rockwool Superfund Site (Wilder, 2006). The site inspection and maintenance activities have been developed in accordance with Texas Administrative Code (TAC) requirements for closure and remediation of industrial solid waste and municipal hazardous waste landfill facilities per 30 TAC §335.8 and the Wilder Construction Company MatCon® Operation and Maintenance Plan for Rockwool Superfund Site (Wilder, 2006).

In support of the 5-year review, inspections were performed at the site to ensure that the cover and drainage controls installed in the Geer Property-Cemetery, North Property, and Central Property areas are performing as designed, and to document that regular maintenance and repairs are performed as needed. Specifically, inspections were conducted on the following site features:

• DBS&A inspected the on-site groundwater monitoring wells for any evidence of damage and tampering, and to ensure that the protective covers are securely locked and the well identification numbers are clearly visible. Exterior conditions of the monitoring wells assessed included well visibility and accessibility, casing and cap condition, signs of unauthorized tampering, and proper operation of the security padlocks.

- DBS&A, with the support of APEX Geoscience, Inc. (APEX), inspected possible erosion occurrences over the capped waste that could threaten the stability of the articulated concrete blocks (ACBs) located along the Leon River Bank (LRB). In addition, the ACBs were inspected to identify displacement or loss of the blocks, the loss of continuity of interlocking blocks, and evidence of instability.
- DBS&A and APEX inspected the integrity of a concrete storm water outfall for signs of cracks. The outfall is connected to the corrugated metal drain pipe located between the North Shop Pile and capped EVL and traverses to the LRB. This drainage pipe along with the pipes located at the Cemetery Shot Pile were also inspected for signs of blockage.
- DBS&A and APEX observed groundwater seeps originating from the ACB area along the south river bank, approximately 100 feet north of the capped EVL, during the March 2015 O&M Inspection. In June 2015, DBS&A collected water samples from the seeps and submitted the samples for laboratory analysis.

Additionally, integrity inspections were conducted on the MatCon Hot Mixed Asphaltic Concrete (HMA) Cover in March 2015. The visual inspections of the HMA cover were performed to document any evidence of settlement, cracking, animal holes, pooled water, erosion, or deeprooted vegetation, and indications of a dense grass mats. On June 9th, 2015, asphalt core samples were collected throughout the HMA in support of assessing the integrity of the crack sealant that was applied during the fall of 2014.

These maintenance inspections were performed as required in support of the Record of Decision (ROD) for the RWI Federal Superfund Site (EPA, 2004) in order to ensure the continued protectiveness of the selected remedy. Field notes of these field oversight activities are provided in **Attachment A**. Photographic documentation of the maintenance activity is provided in **Attachment B**.

Site Background

In 2010, the TCEQ contracted DBS&A to perform O&M activities in the form of groundwater monitoring and other inspection and maintenance tasks to ensure the continued protectiveness of the selected remedy at the RWI Federal Superfund Site located at 1741 Taylors Valley Road, Belton, Bell County, Texas. **Figure 1** (Site Location Map) of this report presents a map illustrating the location of the RWI facility and the surrounding area.

The RWI Site includes an approximately 100-acre tract of land in a primarily industrial area located one quarter mile east of Interstate 35 in Bell County. The RWI Site is bounded to the north by the Leon River and to the south and west by Nolan Creek. East Belton Cemetery and other

commercial and undeveloped private properties lie to the west of the RWI Site and light industrial properties lie to the east.

The RWI Site is broadly divided into two main areas; the North Property and the Central Property as illustrated in **Figure 2** (Site Map). The North Property and adjoining Geer Property-Cemetery area constitute a 14-acre tract of land on the north side of Taylor's Valley Road. The Central Property includes Operable Unit 2 (OU2) and forms a 47-acre tract of land south of Taylor's Valley Road extending to FM-93. Historically, the RWI Site included a Non-Process tract that covered approximately 40-acres of land located south of FM-93, which traversed southwest to Nolan Creek. During prior remedial investigations, the Non-Process tract was determined to be free of contaminant impacts; therefore, this 40-acre tract of land is no longer considered part of the RWI Site.

Former consultants originally contracted for the project executed the remedial action (RA) at the RWI Site as defined in the ROD and in accordance with the accepted remedial design (RD). The RA consisted of activities utilized to eliminate human and ecological exposure to contaminated waste emanating from the RWI Site. RA processes included drainage improvement activities, waste and soil excavation and removal and the placement of clay and topsoil caps over the contaminated areas. The clay/topsoil covered areas were marked and surveyed for institutional control and replanted with vegetative cover. The RA also consisted of the construction and capping of a containment cell designed to contain excavated waste from areas of the RWI Site. Site inspections conducted by Shaw Environmental, Inc. (Shaw) in June 2013 identified several areas of the site that needed maintenance work, including maintenance issues pertaining to the HMA cover.

From July 28, 2014 through August 8, 2014, DBS&A provided oversight of fence construction activities at the RWI Site. The north side of the Central Property and east side of the North Property were equipped with new fencing. To be consistent with the existing surrounding fences, a chain link fence was constructed between the cemetery property and the site on the North property and a barbed wire fence was constructed along the north side of the Central Property. During the fence construction activities, vegetation was cleared to ground surface extending three (3) feet to each side of proposed fence location.

Repair crews mobilized to the site in August 2014 to initiate asphalt repairs for the HMA Cover. General sequence of repair operations included installation of the drainage swale crossing, apron repair, patching, crack sealing, and the application of the seal coat.

Throughout fiscal year 2015, DBS&A with the support of APEX conducted the O&M inspections focusing on documenting the condition of the existing groundwater monitoring wells, ACBs, drainage pipes, storm water outfall, and HMA cover.

Condition of Groundwater Monitoring Wells

On January 28, 2015, DBS&A inspected on-site groundwater monitoring wells for any evidence of damage and tampering, and to ensure that the protective covers are securely locked and each well identification number is clearly visible. **Figure 2** of this report presents a site map illustrating the RWI site features including the locations of the groundwater monitoring wells. For reference, photographic documentation is included in **Attachment A** and field notes are included in **Attachment B**. Well inspection findings identified during the inspection event along with recommendations for well repairs and/or upgrades are presented in **Table 1** below.

Well ID	Date Well Inspected	Well Inspection Notes	Recommendation
MW-7	1/28/2015	Well is protected by corrugated steel cover; Hinges on steel cover are broken; A tear was observed on one side of the steel cover. (see photograph #1)	Replace corrugated steel sheet on damaged side and replace damaged hinges.
MW-9	1/28/2015	No repairs needed. (see photograph #2)	
MW-10	1/28/2015	No repairs needed. (see photograph #3)	
MW-11	1/28/2015	Soil erosion observed underneath well pad. (see photograph #4)	Backfill areas underneath well pad with soil/gravel.
MW-14	1/28/2015	Well label missing. (see photograph #5)	Install new well label.
MW-15	1/28/2015	Casing obstructed at 19.1 feet below top of casing; possible silt accumulation. (see photograph #6)	MW-15 continues to be dry after several well gauging events. DBS&A recommends to either re-develop, plug and abandon the well, or keep the well and monitor the well for future water accumulation.
MW-16	1/28/2015	Well dry after several gauging events. (see photograph #7)	MW-16 continues to be dry after several well gauging events. DBS&A recommends to either re-develop, plug and abandon, or keep the well (monitor the well for future water accumulation).
MW-17	1/28/2015	Well label missing. (see photograph #8)	Install new well label.
MW-18	1/28/2015	Hinge on well cover is broken. (see photograph #9)	Install new hinge on protective casing.
MW-19	1/28/2015	Well label missing; Soil erosion observed underneath pad (see photograph #10)	Install new well label. Backfill areas underneath well pad with soil/gravel.
MW-20	1/28/2015	No repairs needed (see photograph #11)	
MW-21	1/28/2015	Hinge on well cover is broken; No traffic bollards (see photograph #12)	Install new hinge on protective casing. Install vehicle bollards around the well pad.

Table 1. Condition of Groundwater Monitoring Wells

Well ID	Date Well Inspected	Well Inspection Notes	Recommendation
MW-22	1/28/2015	No traffic bollards (see photograph #13)	Install vehicle bollards around the well pad.
MW-25	1/28/2015	Newly discovered well; No well cap and no lock; Well casing is bent (2-inch diameter bailers or pumps cannot be placed downhole). (see photograph #14)	DBS&A recommends to plug and abandon the well.
MW-24-90	1/28/2015	Northwest corner of well pad is damaged. (see photograph #15)	Repair concrete well pad.
MW-27-90	1/28/2015	No repairs needed (see photograph #16)	
MW-28-90	1/28/2015	No repairs needed (see photograph #17)	
MW-29-90	1/28/2015	No repairs needed (see photograph #18)	
MW-30-90	1/28/2015	Well pad corners appear to be chipped. (see photograph #19)	Monitor for future structural damage.
MW-33-90	1/28/2015	Well pad and protective casing are slanted/bent; Soil erosion observed underneath well pad. (see photograph #20)	Replace concrete well pad and install new protective casing.
MW-34-90	1/28/2015	Soil erosion observed underneath pad(see photograph #21)	Backfill areas underneath well pad with soil/gravel.
MW-35-90	1/28/2015	No traffic bollards (see photograph #22)	Install vehicle bollards around the well pad.
MW-37-90	1/28/2015	No traffic bollards (see photograph #23)	Install vehicle bollards around the well pad.
MW-38-90	1/28/2015	No traffic bollards (see photograph #24)	Install vehicle bollards around the well pad.

Table 1. Condition of Groundwater Monitoring Wells (Continued)

Overall, the groundwater monitoring wells located at the RWI were in manageable condition with active wells being accessible. In addition, the majority of monitoring wells appear to be in good condition with most wells having protective metal stub-ups and metal tubing guard rails.

North Property O&M Inspections

In response to the United States Environmental Protection Agency (USEPA) document titled "First Five-Year Review (Review) for the Rockwool Industries, Inc. Superfund Site, Belton, Bell County, Texas" dated September 2012, DBS&A and APEX conducted inspections at the North Property to assess the follow-up action items recommended by the USEPA (**Table 2**).

EPA FINDING	EPA RECOMMENDED ACTION
Drainage corrugated metal pipes (CMPs) are partially clogged at the Cemetery Shot Pile (CSP), and in the stabilized LRB between the North Shop Pile and capped Evaporation Lagoon (EVL).	Clear out all the CMPs at the site.
The concrete outfall to the CMP in the stabilized LRB is cracked. The cracks are sufficiently large to possibly allow water to erode and undermine the outfall.	Patch the cracks in the outfall for the CMP in the stabilized LRB.
There is active erosion near the western edge of the capped EVL. This erosion may be occurring over capped waste, and could also threaten the stability of the ACB in the LRB.	The erosion near the edge of the capped EVL should be repaired and addressed in a manner to reduce or prevent future erosion.

Table 2. EPA Findings and Recommendations

Corrugated Drainage Metal Pipes

One CMP is located between the North Shop Pile and capped EVL (see photograph #25). At the CSP, two CMPs are located under the stockpiled material to reduce surface erosion (see photograph #29 and #30). On March 17, 2015, DBS&A and APEX performed an inspection of the onsite CMPs. At the time of the site inspection, minor vegetation growth and debris were observed at the discharge locations of the CMPs; however, the vegetation and debris did not appear to cause an obstruction of water flow within the CMP (see photographs #31 and #32). At the time of the inspection, accumulated vegetation and debris were removed by hand by DBS&A personnel. Additionally, the drainage culverts located at the central portion of the North Property were inspected; no signs of debris or vegetation blockage were observed at the drainage culvert (see photograph #28).

<u>RECOMMENDATION</u>: Continue to monitor for signs of obstructions within the CMPs.

Concrete Outfall

The concrete outfall surrounding the CMP located at the stabilized LRB between the North Shop Pile and capped EVL was inspected during the site inspection. Based on observations performed by DBS&A and APEX, an approximately 2-inch wide crack was identified on each side of the CMP (see photographs #26 and #27).

<u>RECOMMENDATION</u>: DBS&A recommends sealing the cracks located at the concrete outfall surrounding the CMP utilizing a concrete filler and sealant.

Capped EVL Erosion

A former erosion channel measuring approximately 3-feet wide and 3-feet deep was located approximately 40 feet west of MW-35-90, traversing north and parallel to the existing underground drainage pipe to the Leon River embankment. In June 2013, gravel and caliche stones (riprap) were placed and graded throughout the eroded channel to stabilize surface soils and prevent future erosion occurrences. At the time of the March 2015 O&M inspections, the riprap appeared to be in good condition and did not require further repairs or controls to stabilize the soils (see photograph #38).

RECOMMENDATION: Continue to monitor the riprap for loss of soil and stabilization.

Vegetation Control and Brush Removal

In May 2013, approximately 2.5 acres of vegetation consisting of trees, bushes and weeds were cleared and removed from the ACB area without disturbing the ACBs in place. Grass and weeds were "weedeated" and any trees, brush, or other larger diameter vegetation were removed by cutting them at ACB grade level. Based on observations conducted by DBS&A and APEX in March 2015, ground cover vegetation (e.g. grass) appears to be moderately effective in preventing new growth of larger diameter vegetation; However, during the inspections, portions of the ACBs contained new tree and bush saplings (see photographs #33 and #34).

RECOMMENDATION: Cut and remove saplings at ACB surface; uproot if necessary without damaging the ACB cover.

Miscellaneous Inspection Finding (Groundwater Seeps)

During the March 2015 O&M inspections, DBS&A and APEX observed groundwater seeps originating from the ACB area along the south river bank, approximately 100 feet north of the capped EVL area. The seeps were identified as an upper area where the sounds of "running water" were audibly observed and a lower area where ponding water was visually observed (see photographs #35, #36, and #37). Based on the seep findings, DBS&A was authorized to collect water samples from the seeps for laboratory analysis of the RWI COCs. The objective of the groundwater seep sampling activities is to determine if leaching of RWI COCs via the groundwater seeps to the Leon River are occurring.

In June 2015, water samples were collected from two (2) upper seep locations (see photographs #39 and #40) and two (2) lower seep locations (see photographs #41 and #42) in accordance with Addendum No. 3 to the FSP. The flow rate for each seep was measured using a measuring cup and a timer prior to sample collection. The flow rate for the upper and lower seep was measured to be approximately 25 milliliters per minute (ml/min) and 40 ml/min, respectively. The groundwater

seep sampling activities are further discussed in the 2015 Annual Operations & Maintenance Report submitted under a separate cover; and include the laboratory analytical report for the seep samples.

Analytical results from water samples collected from selected seep locations were compared to the human health Preliminary Remediation Goals (PRGs) for the COCs in order to ensure the continued protectiveness of the selected remedy and to determine the level of contamination originating from the groundwater seeps. The concentrations of the PRGs for the COCs in groundwater, as defined in the FSP are 6 μ g/L for antimony, 10 μ g/L for arsenic, and 5 μ g/L for lead. **Table 3** (Summary of PRG Exceedances - Groundwater Seeps) below presents the analytical data results for groundwater seep samples collected in June 2015.

Sample ID	Lab Sample ID	Sample Date	Antimony (mg/L)	Arsenic (mg/L)	Lead (mg/L)
Preliminary	Remediation Goals	s (mg/L)	0.006	0.010	0.005
SP-1 Upper	1506261-24	6/22/2015	0.306	0.0266	0.0184
SP-2 Upper	1506261-25	6/22/2015	0.341	0.0412	0.0312
SP-1 Lower	1506261-26	6/22/2015	0.00226 J	0.0023 J	<0.000300
SP-2 Lower	1506261-27	6/22/2015	0.000993 J	0.00228 J	0.000305 J

 Table 3 - Summary of PRG Exceedances - Groundwater Seeps

Values in **bold** indicate results above Preliminary Remediation Goals (PRGs)

J = Estimated result / analyte detected between SDL and MQL.

Both groundwater seep samples collected from the upper seep location demonstrated concentrations of antimony, arsenic, and lead above their respective PRGs, which is likely an indication of contaminant leaching from the subsurface soil and waste located at the EVL area.

RECOMMENDATION: Perform two additional groundwater seep sampling events and submit samples for laboratory chemical analysis of RWI COCs in order to determine if there is leaching of RWI COCs via the groundwater seeps to the Leon River.

Central Property O&M Inspections (HMA Cover)

On March 17, 2015, DBS&A and APEX performed an inspection and assessment of the HMA Cover repairs previously completed in the fall of 2014. The 2014 HMA repair activities have been summarized and provided in a report to the TCEQ under a separate cover. Cracks previously identified throughout the HMA cover were sealed using Martin EZ-7 Cold-Applied Crack Sealant, which is a rubber-asphalt (cold applied) crack sealing compound that complies with TxDOT

Specification 300.2 H. Crack sealing was conducted at the HMA cover on four separate occasions (8/26/2014, 9/24/2014, 10/28/2014, and 11/10/2014). Approximately 2,800 linear feet of cracks were sealed in general conformance with specifications outlined in the Operation and Maintenance Plan for MatCon HMA Cover.

During routine operations and maintenance (O&M) inspections conducted on March 17, 2015, DBS&A and APEX observed that approximately 90% to 95% of the cracks previously sealed have reopened, which indicates that the integrity of the crack sealant applied in 2014 has been compromised and/or the sealant was not applied correctly to meet required specifications (see photographs #43 through #46).

On June 9th, 2015, asphalt core samples were collected at the HMA Cover by TCEQ subcontractor Sunbelt Industrial Services and asphalt contractor Pavecon in support of assessing the integrity of the crack sealant that was applied during the fall of 2014. Upon completion of the coring activities, the core samples were inspected by DBS&A and APEX. The following conclusions were drawn from the inspection of the core samples:

- 1. A total of five (5) core samples were obtained on June 9, 2015 by Sunbelt at randomly selected locations. Three of the five core sample locations were selected by DBS&A and the other two locations were selected by Sunbelt and Pavecon. For reference, photographs collected during the cores sampling activities are presented in photographs #47 through #68.
- 2. The diameter of each core was 4-inches. Each core was drilled to the bottom of the HMA cover. Core sample thickness ranged from 3.5-inches to 5-inches capturing the full extent of the asphalt cap. At each core location, the center of the coring tool was placed at the center of the respective crack.
- 3. Core samples were separated vertically by hand. The core samples were inspected by DBSA, Sunbelt, and Pavecon. APEX inspected the core samples on June 23, 2015.
- 4. At each core location, voids or gaps between the top of the clay liner and the bottom of the asphalt cap were not observed, which appears to indicate that that sealant did not escape from areas beneath the asphalt cap.
- 5. Core sample D1 (DBSA 1) was not used for the evaluation of the crack seal as the coring machine damaged the sample.
- 6. Core sample D2 (DBSA 2) was inspected by DBSA and APEX. Based on the inspection of the core sample, DBSA and APEX concluded that the crack sealant material fully penetrated the crack at this location creating an adequate seal.

7. Core samples D3 (DBSA 3), P1 (Pavecon 1), and S1 (Sunbelt 1) were inspected by DBSA and APEX. Based on the inspection of the core samples, DBSA and APEX concluded that the crack sealant did not fully penetrate the entire extent of the crack at these locations. According to the cross section view of each core, the crack sealant material was observed to seal only the upper portion of each crack.

During the core sampling activities conducted on June 9, 2015, DBSA inquired to Sunbelt and Pavecon regarding the application of the crack sealant; specifically why the crack sealant material did not fully penetrate cracks as observed with core samples D3, P1, and S1. According to a response from Pavecon, obstructions, such as gravel and soil located within the crack, prevented the sealant to fill the entire extent of the crack. According to Pavecon, the cracks should have been routed during the repair activities creating a somewhat smooth and consistently wide opening to allow the sealant material to fully penetrate each crack.

According to the 2014 HMA Cover Repair Scope of Work, "vegetation and dirt/debris will be properly removed from cracks, and an EPA approved herbicide will be applied or roots will be burned. If an EPA-approved herbicide is applied, sealing will be delayed for 7 to 14 days. Cracks with a mean width of approximately 1/8" or greater shall be routed using a vertical-spindle router or rotary-impact router to provide a clean and even crack edge and reservoir for the sealant. Routing should remove approximately 1/8" of material from each side of the crack and should extend approximately 1/2" to 3/4" be deep. After routing and removal of at least 1/8" of material from each side of the crack, the sealant reservoir should be at least 1/4" wider than the original crack. The sealant reservoir should have a minimum width of approximately 3/8" and a maximum width of approximately 3/4"."

According to DBSA field personnel Mr. Gabriel Gonzales, documented field notes indicate that routing was not performed by Pavecon during the HMA cover repair activities conducted in the fall of 2014. Therefore, proper installation of crack sealant was not performed in accordance with the scope of work.

As a result of the improper application of the crack sealant applied on the HMA Cover during the fall of 2014, Sunbelt and Pavecon have agreed to honor the warranty of the 2014 scope of work by reapplying the crack sealant to the cracks per the specifications of the HMA Cover Repair Scope of Work. The reapplication of the crack sealant will occur in September 2015.

Conclusion

Operation and maintenance activities were performed at the RWI Site from January through June 2015. As a result of the inspection findings at the RWI Site, maintenance and repairs presented in this letter report are recommended in order to ensure that the selected remedy remains protective

of human health and the environment and to satisfy the maintenance items for the 5-year review. DBS&A also recommends that O&M inspections continue to be conducted on a quarterly basis at the RWI Site.

DBS&A appreciates the opportunity to be of service to the TCEQ. If you have any questions, please feel free to contact Mr. Ben Camacho at (512) 821-2765.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.

Ben Camacho Project Manager

ATTACHMENTS

Figures

- 1. Site Location Map
- 2. Site Map

Attachments

- A. Field Notes.
- B. Photographic Documentation.

Figures



Figure #1

Daniel B. Stephens & Associates, Inc. 2/3/2015 ES15.AIR0.40 **N** 0 500 1,000

ROCKWOOL INDUSTRIES, INC. FEDERAL SUPERFUND SITE 1741 TAYLOR VALLEY ROAD BELTON, BELL COUNTY, TEXAS Site Location Map



Daniel B. Stephens & Associates, Inc. 10/15/2015 JH ES15.AIR0.40

Attachments

Attachment A

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24.65^E DTW H 26.65 147 1.55 6.04 26.68 29-92 7.05 0.821 141. 1.80 6.96 26.09 (3) Set as a nu- 30 - 90 RE DE Varia Pter PV= 1.094 * Frent water in well + D DUMP PJ = 30' 6400 Shid 6.13 **LTNON** 19.51 7.06 0:531 139 1.79 6.67 ORP DO TUR 3+ we (velomes single) 0 400 100 Ĵ 5 **^**. J M 065410c7/0 2 065traction 190 1.25 5 5 altan as coments 2 . 27-15 MN W-30-50 Su Sampled Multip ST NS -10 ESICALA040 0.506 0276 0-8-22 31.86 22,72 Sullars 16.82 27.2 26.11 Dree Reckwoor 29.19 27.63 temp out be 920 Dry 7,03 6.53 201 Ph= O.2 H/Min well and lo Set up 9.27 1.42 7.36 19.16 06-25-WM Auw - 34-90 10-2- - 1- 90 MU-25-90 6-22-15 01-(2-00% 21-12 6- 78 anew - RG AL /Jan Time 6130 5-60 520 0924 23 0%6 GSSD 0/260 Arrive angite GGE Grape Graning & site is wet. muddy couditions ESIS AIRO 40 AG calibrate (2) Hariba water quality 2 25 PC, 20% chance of tain metors. Lotal 11367 exp 11/19/15 (1) 1 = 4.01 ASKM-4.47 NTV = 0.0 までの (2) pet = 4,01 mS/ma = 4.49 Novea " Iers Att could bet Hew (th and Safety # atoy of 8 \$ 0 • -N Me a sar enants DTU) Rockwool 6-22-15 8.24 5.57 12.85 2,9,2 29.95 26.34 26.65 29.67 27,59 53.87 E. E office 30.55 31.37 (l) (14) 6/22/15 well ちょう 06-A2-mw 00-38-40W ספירל יטוא 06-28-0W AL North Mw-30-90 21-18 S2-01 M 1-20 S- NW MW-19 Med - 7 Mes- M 11- mW 13-01 0260 0 815 070 0630

5 co liver of \$ 0500 /6/22/5 27.74 27,74 22,75 0.61 12.76 22, 75 DTeu 12.96 9.5% 1259 7.36 22.06 6.545 119 5.83 7.76 9.54 ATU V 9. 54 12.96 9.01 12.46 2.57 939 PV-104 resound 352 NU- 1.0521 È 305° 1400 12 - 640 0 1.49 The Said よって 10.16 24.2 5,55 13.6 22.04 0.547 1/2 5.84 W. P.D = Zl' TJ Clo 10 C \$08[1-**9**; 226 21.24 0.266 116 ~5.55 0,0 1.62 22.39 0,916 -52 1,99 0.911 - 50 1.50 at Aw - 37-90 40 1. 23 9 20.66 1.55 47 .22 1:31 A 23-22 W P0 : 10-22 Saing led Med - 37-90 MUU-34-90 0 Rectiment M W -3 24 - 50 ESIS AIRO40 -.69 8 22.01 0.559 INS 000 20.45 1,30 - 43 1440 36 Ŋ are 0,906 0.917 2 6.65 20.30 1.59 Set in at X o. 2 Yarin teins & SC. M PR- 0.24min 2 504 400 -terest 2,2,,34 20.61 21.90 21.96 Kanyo K-DU0-2 Sampled 600 PR= 0.2 0 6.24 6.20 1253 2.30 202 **24** 1.04 6-22-15 Set T 140 2 X A N N 120 200 7.17 1 1, Me 7. 200 140 1250 1001 220 251 1154 1256 18051 1340 1240 223 336 1329 1315 320 14 May 14 1.16 17.60 27.23 W19 8767 1.34 10.96 22.20 6.49 20.31 0.333 151 1.39 9.01 23.23 22.73 24.51 11.1 1,27 5,65 27.73 PV= 1.05=1 6.46 20.66 171 1.01 1.79 6.61 26.13 2 1041 6.44 2012 1.60 1.19 1. 78 5.40 26.14 TWB DTW 28. Au 6.50 2015 1.58 1.24 1.76 5.36 Zuily 1036 6.40 20.60 1.15 1.11 1.83 5.55 26.14 22.74 26.94 28.94 1.0 901 26.94 NTW 6-22-15 PV= 1.05al 2012 PR= 0.2 (min 2000.31 broc PR = 0, 2 4 / min 1 8 = 31' 6 00 -14.5.5.45 , , 16.6 The of tend & oll 20 - Eda 1110 6 49 20 412 1.61 29 1.31 1116 6.54 20.49 1.71 34 134 134 134 20 31-1.35 6 21-2-9 PD= 28.88 1119 6.57 70.52 1.69 27 1.43 6. 2 1100 Set up at MW-33-90. 2 2 (1020) Same les MW -29-90 Set ~ 0 0 MW-29-90 26 1.26 Sound le 1 MW-33-90 (1050) Sampled MW-17 10.05 6.50 20.31 0.904.143 9 ESIS 4 18 40 1011 5.49 20,37 0,924 146 1014 6.49 20,34 0.830 119 1005 651 20,26 0.799 141 0 20 set up Q an w - 17 Rection ph temp 60 0 04P. Ø ph temp sc 1107647 20.36 1154 112 6.51 70.46 1.75 PR= D. 2 ' Min ころ Ì 1017 6000 Time 1035 1:000 (130) 10001 020/

espart. Seep UPPER JPPER 5 to +0 67 UPPER L'AJ MOJ 1. Austin M. (OBSA = Fride) Mansfer Field Nates from wed a Container Lowcir 2007 again ler 4 5 0.25 4 5 Samp ling 50-2 M d' Steel cleaning) drum half ful 1,2C+ Clear water clarity = cloud シート ILER Samue led State 00 54-25 Lenz wos stain less 4 6-22-15 Noch-SP-Canne Fa Seen clar; N= Set up ay 9 Flow rate * 9 Flow rose amp led Somple R Cal Packine 20 Besin \$ 1 2 54.5 bbou Pave Grebe dur anno e lastic whetch 204 400 15 water Note 009/ 16401 1,650/ 020 1540 102.11 1630 1820 011 0849 50 30 PV= 1. 0 52) 1452 664 23,44 1,43 10.5 1.84 9.62 5,00 12.67 Do LUCIO DIW 6.71 23,45 7.40 106 1,40 10.14 5.60 313 1406 7.44 23,00 0330 190 2.29 411 9.25 7,44 25,20 0,300 1,31 2,11 4,50 6.25 1476 6.65 23.36 1.36 101 1.69 9.01 5.60 1449 6:65 23, WI 1.41 104 1.78 8.45 5.60 12.27 1.3 1443 6.66 23.30 1.24 105 1.55 9.60 5.00 6-22-15 ってつ 12, 57 246 23,11 0.396 198 2.46 6.45 9.27 1409 7,44 23.17 0.326 174 2.20 4,97 6:28 Sampled MW-21 PV-1.5gal PD= 12 6401 Mcollect MS/MSD at MW-21 PD= 10 btac Sound led Mr. - 35-90 - 1 - 1 - 1 7.45 23, 20 0 1345 18 2.39 502 2.01 7.04 time of temp so or Do Turb 2,42 Thu PH tend or DAP Do Turb 6.65 23.40 1.23 12 Z.12 S.04 s. S PREDIVE PDE 15' bloc いい Set up @ Mal-38-90 2. Sample & MW-78-50 Set ip at MW-35-90 2.66 Set up a Mu -2 ORE ES157, ROY 1509 6.70 23.47 6.16 136 Rackwool 221 02 11 Sh 22 20 7 2 21 1506 6.74 23.46 1.09 120 PRE 0.2 Ymin PR=0.2-VMin at temp 50 1415 11520 1403 In IR 1430 -----1455H 1400 18 1500 SSE Š ohhl

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Or burley for the fire	the cr vae DD fint Dfu	0950 6.32 25.00 1.35 166 6.13 0.0	O953 6.3.7 25.08 1.36 162 5.54 0.0	0956 6.38 25.09 1.34 152 5.35 0.0 -	culd not received well cleavelown due	the v1.00 . E waken is vell. 3 hadder pune	prevents water notes from reaching water	2" vel	O958 Sandled MW-11 N 2 O5 Sal		1011 " Setup on the million of	PL: 34' PR:0.275 Vinn	Time of Temp SC 02P D.D. Two DTW	1020 6.45 22.70 0.954 160 6.96 12 0 24.59	1023 6.42 22.25 0.931 163 7.05 1.4 26.21	1026 641 22,13 0,924 168 6.77 6.9 26.79.	88.12 0.0 769 191 288.0 1812 04.9 B201	10.32 6.45 21.93 0.880 165 6.87 0.0 26.97	[1034] Sampled MW-14 PV = 3.3 sel	1042 rely on MWH PI . The PR = 0.25 Vin	Time up H. Temp School DOW The OTH	1105 6.39 23.76 1.07 32. 6.72. 0.0 29.31	108 6 44 23.84 1.09 140 6.66 0.0 29.37	1111 4.47 23.98 1.14 13.7 6.59 0.0 29.42	(115) Sempled MW-7 2N: 0:50 Jul		

. = N Ĵ 27.79 29.86 24.72 アン PV= 0.75 301 partiting up equip much and 1620 Sulver and on MW-19 PT= 32' PR= 0.275 54. 0 0 0 ر د د 6.75 23.21 0.988 181 5.55 6.77 24.23 1.0) 188 S.76 6-71 23.11 1.00 180 5.61 Reckune 1 6/21/15 PI-WM Hadden in Austin 720 Depert 6.1c. seconing equip , ° 2 1040 (63**t** 636 25 20 29.37 1446 6.72 22.31 0.765 (24 8.4 0.0 28.08 29.25 6.61 26.54 0.169 137 4.66 0.0 29.55 36. IT 1541 6.81 25.42 1.17 162 4. 2 50.1 30.37 310 1443 6-73 26 .83 8.764 123 8. 16 0.0 27.94 55 30.22 210 PV 6.5901 18.12 1545 Sandred MW-20 PV . 6 5 ged N= 0.75 - VY 04 Temp 50 04P 100 Turb 6.75 2436 6965 132 4:72 6.0 6.>1 2651 0.966 33 4.68 0.0 Time p H Temp SC 0212 DD Turk 6.84 25.88 1.19 154 4.58 5-1.5 1525 6 88 26 09 1.21 173 4.47 48.1 t and PR 300 4275 Y PL= 45, PR. 6.250 4 Rockwool 6/22/15 Time of I tan se dep DO 1410 Setup on MU. 23-90 PC= 31' PR- 300 Sampled MW-28-90 1520 Salue on MU.ZD 1433 Seture an MU-9 PI: 50' PR: (1440) Sambed MU-9 (dsh) ۲.--۱ 1751 1424 1419 (12) 1638

N Z FOR DBS & A DEPARTS HOME FOR SITE AROUND CAP AND TAKE BEFORE PUDTS TEMP 78°F, SUNNY NORTH BREEZE HES CHECKLIST, HEAT AND SNAKES THEY WILL MOVE TO SOUTH CATE ENTRONE AND SIDES OF DETENTION BASIN. THERE STATTME MILERON 1117807 MILES LOC NEXT PAGE), CALL BEN COMPACHO To: CONFRAM EXTENT OF VECETA TON 125 440 DPAINAGE DITCH 154 WERY 50 = 7 DRUC OVER TO MEET THE M AND BRINC DE 15 BUB Ana IV ES / DSITE WWACK Ane A TAKE PHOTOS OF CONDITION ON SOUTH 0715 BERDNICH LEE - BRAND (BL3 WIGG BE PRIMARY SITE HAZANDS FOR 151 XECENCES CALL FROM B.C. SONBELT YESTERDAY SO CANUNDIS PRETTY SOFT AND EAST SIDE OF CAP (SEE PUDTO REMOVAL AROUND CAP PLIPTUDS AREA CALLED OSUALDS W/ SOUBERT , WILL 6/29/2013 CREW PARKED ON NORTY SIDE OF CUP 15 STANJINC WATER W/ IN THE BASIN ESIS AIRD 40 ROCKWOOL 0835 WALK WORK AREA, RAINED IN PERSONAL VEHICLE 32.6-TODAY S WORK 1015 August Andrie altre Warder and Event Le Hadring to Ercler off Ramer Le Hadring to Ercler 1022 Arrite at Febber. Handring Auchlans. 1025 Equip dropped aft. 1 and to 1025 Equip dropped aft. 1 and to 1055 Condes dropped aft. Hand there is land Rauk TX 1059 Condes dropped aft. Head there is land Rauk TX 1059 Condes dropped aft. Head there is land rauk TX 1059 Condes dropped aft. Head there is land rauk TX 6/23/15 ESNS. APRO.40 LACKWOOL (k3)

ESIS A 120 46 ROCKWORL 6/29/2015 340 THEM TO SOUTH CATE ENTRANCE DO36 BLB AND SUNBELT (OSVAL) 0 MONTES	SCOPE FOR VECETATION REMANAL SCOPE FOR VECETATION REMANAL BACK TO SATH ROOM BREAK THEN TO BECIN 2 WEED EATERS FOR JDB 1000 SUNSELT STARTS WEED EATING ON 500TH RJOR OF CAP BLB CHECKS OUT DTAINAGE DITCH STANDING WATEL	WHEN WALKED ACAOSS PORT AND TRAINED AND TRAINED AND RAND AND AND AND AND AND AND AND AND AND	
BLB 29/2015 ESIS. AIRO.40 (121) 6/29/2015 ESIS. AIRO.40 1- LODKING NW TOWARDS DETENTION 2- LKG. NW TOWARDS DETENTION POND 3- TRAINAGE DOMARDS DETENTION POND	9,8,4- EAST SIDE DE CAP, LICE, NE 7- EAST SIDE DE CAP, LICE, NE 14, 10- NORTH SIDE DE CAP, LICE, SOUTH 12, 11- STANDING WATER IN DETENTION POW 13- DRAINAGE 13- DRAINAGE 15- NORTH SIDE OF CAP, LICE, EAST 16- EDGE DT CAP	18, 17- WEST SIDE OF CAP, LKG. SOUTH 19- SOUTH EDGE DE CAP, LKG. EAST 20- COMPLETED WEST EDGE LKG. EAST 21- COMPLETED N W CORNER DE CAP 22- COMPLETED N W CORNER DE CAP 23, 21- COMPLETED N EDGE LKG. EAST 25- COMPLETED N EDGE LKG. EAST 27- EAST EDGE LKG. N 27- EAST EDGE LKG. N 28 W. EDGE DETENTION POND, LKG. S 31, 30- STANTING WATCH 31, 30- STANTING WATCH	

NTU: 0.0 Nru=00 20 Jor vor and conduct Health and Safeth 4 - The shared 4 exp wherlis 10 8 Ψ M W W 8-17-8 S Ó brate x - x 54 オーキ 4 H 1 4.48 3 # 677 # N い茶 m द मुम् ES IS A ROUND 27.75 S S S S M. W. - 35-40 1: 16, 40 ALL 38- 90 - 1 10.04 1 - 1 S Suage 1157 ansite : 7.64 32.66 26.94 32-06 27.80 30.35 3rD 26.85 31.20 27.61 11:37 29.92 30.73 00 H= 4.00 654 4.01 office 110 M 44-27-10 1 . The P mu - 24-90 040 M.U. 30-90 Will Harris MALU-29-90 ar rive mw + 37-90 MU3-21 leave 80,65 meet Well ID 22- mw AN1-20 or-nw A UU - 19 MW-15 マーンを MW.-.I.M Θ R 0220 0280 Scope of WORK completed, suubeut 30-35-SOUTH EJGE OF CAT, CONFLETED 42-940 - SPRAYING HERBICITE ON CAP RIM 4100 39 12011 - DILTONIC CONTINUED ON CAP RIM SUNBELT FINISHED W/ SPRAYING TO UPLOAD FILES - 740 TO DOWN LOAD 8 BLB LOCKS GATE AND CHECKS с с 19 18 C BLB DEPARTS SITE FOR HOME COM36 LOCK SITE IS SECONE 1720 BLB ARRIVES (2 HOME & UNLOA) ورسو - - -- المحرج 1.2.2.8 - PHOTO LOG COMPLETED-117920 miles 7 40TO LOG CONTINUED ~~ 2[°] 1 17 ĥs! 5 2) oti Å. à DEPARTS SITE 2 1000 milledge ۲ جبو ۲ ¢., というでい - 2 ţ 55% 23 Carlos Carlos 0 0 0

		and the second
1-29-90 Ber 900 1-29-90 PR = 0.2 Ulmin ORP DO TWO DWW (3)	141 1.24 2.6 27.76 145 1.23 2.9 27.76 147 1.20 3.9 27.76 147 1.20 3.9 27.76 147 1.20 3.9 20 10 20 1 148 1.99 5.40 10 20 15 1.00 1.41 5.40 20 15 1.00 1.41 5.40 20 15	0.95 1,52 5.9 0.92 1,53 5.7 24.15 0.92 1,53 5.7 24.55 0.91 1, 25 5.7 24.55 0.91 2,90 5.5 25.55 0.91 2,90 5.5 25.55 0.91 2,90 5.5 25.55 0.91 2,90 5.5 25.55 0.91 2,90 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.
6-17-15 65/5.4 1010 Set we at an u 1010 Set 28.58	1036 641 25.76 0,411 1042 6.49 25.39 0,400 1042 6.49 25.39 0,400 1045 5049 100 40 00 00 1100 507 0,0 0,0 0,40 1110 6.32 25.61 1,40	1113 6.3 < 25.57 1.54 1113 6.3 < 25.57 1.54 1120 5.67 00 80 1130 5.67 00 80 1130 5.61 25.35 1.74 1141 6.41 25.35 1.74 1141 6.41 25.35 1.74 1141 6.41 25.35 1.75 1141 6.41 25.35 1.75
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Esis. Aira. 40 Well guege ber Zairi 29.13	C9.59 C8.34 16.25 16.25 - 26.64 26.64 26.64 26.64 26.64 26.64 26.64 26.64 26.64 26.64 26.64 26.64 26.25 - 26.25 - 27.25 - 27.55 - 27.55	24,52 0.941 141 2.15 24,57 0.930 147 2.7 6 Mul-10 7 141 -30-9 81 0.631 121 1.94 531 0.631 121 1.94 531 0.631 121 1.94 2531 0.631 121 1.94 2531 0.631 121 1.74 2531 0.631 121 1.74 2531 0.631 121 1.75 2531 0.631 121 1.75 2531 0.631 121 1.75 2531 0.631 121 1.75 254 0.049 00
(130) WellTC AmitTC	MULL-SHE	0518 6,86 0534 6.84 0534 6.87 0540 5.4 11me pH 7 11me pH 7 11me pH 7 1557 6.77 25 557 6.77 25 557 6.77 25 557 6.77 25 1003 6.61 25

N S N PULE 1. OSA 11.57 1.57 65°V 1.57 6.73 25.95 1.32 1.20 2.09 8.6 16 640 2.00 8.4 16.40 16.510 7.5 16.40 PR= 0.2 Some PV= 1.0 tates at MW-15-90 of 0900 P V=LOGAN 0.2 / 2.0 S.Y 10.05 6.02 at 101-21 10.05 7.6 10.05 R= 0.24/m.m ORP DO TURE DTW DO TUR DIW PH Ternel SC ORP DO Turb DTW R, GG 2, 25 6.0 7.51 25.95 0.345 155 2.30 6.6 2.18 5.0 2.2 5.5 0 Set up at anul - 35-50 ð S 12-00 at MW-38-90 PR. S S S 6,67 26.01 1.27 22 1.40 Sampled MW - 38-90 1415 6 66 25.97 1. 24 Wel 4.96 6.67 26.04 1.91 1.22 1.37 6.24 25.92 6.37 1.16 2.15 1457 6.75 25.80 1,35 1.17 2.19 ESIS. A.RO. 40 Andu - 35-90 EX DWS / WS D + when Sarry led mu-21 1348 7.50 25.90 0.336 190 25.58 0.320 184 1354 7,46 24.01 0.325 181 6.64 25.99 21.21 111 000 pH Temp SC ORP Å Y H 20/0/ = Ig 1448 6.35 85.99 1.21 PI = 15 640C Time ph Temp SC 2 Set up × × + 1-1 -Sawy Red 8-17-1S \$ (Dup-1 1351 2.49 - Time-Time 100hl 345 1500 1340 विक 9440 0141 **N** hSh1 15 24 1421 1112 10 1215 4.76 2549 1,54 34: 1,24 24 26.35 1315 713 25.91 0.906 -55 1.54 3.4 72.65 1318 212 Style 0.900 = 600 1.65 2.6 12 50 21 6.76 25,58 1.51 26 1.21 9.8 28.34 0500 at F/17/15 1206 6.71 75.41 1.54 36 1.31 12.5 28.34 ž 1201=11 8-12-15 1209 6.74 25 55 1.60 30 1.26 10.6 28.34 28.35 80,94 6.5 10:38 731 25.90 0.501 109 5.99 3.2 4.38 7.3.2 25.27 0.319 117 6.02 2.0 11.38 PR= as the in ORP DO Turb DTW PH Temp SC ORP DO TUE DTW. PI- 30.5 bloc PA= 0,2 L/min Time pH Famp SQ ORP DO TUR DTW 1218 6.77 25.53 1.57 39 1.27 5.5 1250 732 25.79 0.759 100 5.96 7.4 1321 7.17 26.01 0.915 -64 1.71 2.0 1 set up at Mursurgo. PI =12 BYDE PROSLET 200 8¹¹-÷. 8 Sampled mil-34-90 ESIS AIRO 40 05-28-mm polomit 5et 00 at MW-22. Sangled Mer-22 Time pH Temp SC PI = 211 1100 AJACA Time 9221 0@21 122 (1330 (1300 1256 1259 32) 1253 1630 1245 1300

í PP1:24-135 20.07 31.03 30.59 30.54 3.30 30.01 25 36.48 36 26 31.31 3147 101 27.0 مل 1.5 1 Pr. 35 bloc 11210 94.7 -9-2-34:1 5 55 65 00 7.34 26.36 0940 14 6.67 PR: . 25 thin 0.955 146 6.73 t Nd 27.11 0.946 157 674 7.80 26.70 0961 202 6.31 SC ORP DO 7.79 24.85 0.973 207 4.40 0.972 152 6.29 6.53 s. S 6.57 8/11/8 PQ - 0. 4 00 Z Samples MU 24-90 05 mm P-14 sc orp 121 5 1500 7.45 27.26 0.98 154 oed 5.33 Sandred AU-19 4,34 00 00 40 Reckwool 26.58 Sukue an 32 bloc 1.43 7.8.0H 1.2.1 7.74 22.12 28.8 PT= 34' bhu. Sekep Selve Hd 12.2 Same 245 He Z 7 122M 1350 2 ¥-212 1503 328 1328 Sin 1508 1551 10 2005 1 29.00 27.86 29.04 00 Turk OTU 25.4 0.842 225 6.22 0.0 27.15 26 100 plate new m 0945 - Lock and Oringson this bladder proba 0.0 27.85 1 7.43 25.63 1.10 225 6.46 (43 29.07 Sampled MW 19 PV: 1.54/ 5 1-72 30 to buy 0 • 7.40 24.27 0.868 een 6.73 0.0 7.47 26.10 1.07 223 6.44 151 DO Turb 24,57 0.998 226 6.36 158 of poor Course ? Transferred field notes * 24.8 0871 228 6.65 4 j. Frind Gabriel Generalus Cean pler 0930 - Bagin selling up an MU-11 కి కి. గా కి. కి. R = 15 Probe. Selvo. PR: 25 Upin aclewool \$ x/17/15 PH Temp SC ORP Have Depit in Tande TV PT= 35' How PR= 0.25 4 orp 1120 reduce out site. reducement Orrives. Aller looking for Set up an MW-14 Sampled M.W.11 Tews SC 0-curat in PL- 29' bloc 7.40 1.47 HC SA 7.51 , *î* Time 1020. 1235 1256 1206 1253 1209 1258 1250 1220 1,200 ノンノ 134

28.50 4.2 28.61 met i 31.19 2 3 51.03 25 31.10 Head back to \$2.3 123 021 5 54.7 turb 49. ٠ 22: .254 SS 6 EP-2.12 3 2.32 12 ST. 00 5 5 22 00 r V 8/17/12 • 22-22 020 060 17 1.61 165 てし 1.62 174 PM 723.0 85.25 2 Orobe s de 5. 73 M W-20 1.58 29.46 0 834 5 Canpp n 2.24 25.62 1.73 clear 7.57 29.47 0.8 Sertino 5 Red with we PT= 3415 1644 22 15,52 Cero C PT= 30' 10 tu Salal te Sulture Regin 7.64 12.9 8 10.9 He bladd 1855 848 120 9021 645 35 201 1414 203 1 808 50 **Kos** 62:25 NHO 6.57 24.62 488 2177 \$73 944 3299 200 - DTW -1636 692 27.01 1.01 - 13 H.S. 19.7 29.85 174 4.11 108 32.14 -6.70 W.n. 1.37 992 4.11 408 52.83 -20.4.94 23.4 29.2L 145 PHAL TENERSC OPPALLEDO RITURN DTW. 1 64.5 1635 4.91 227.43 1.02 11 16 84.77 22.1 29.9721 6.72 26 44 1.34 Chr 48 2 112 32 75 10.55 1000 PL: 36' blue P.R.O. 2 Vinner 99 J 6.56 24 sy 1.63 1.62 3.62 83.2 Sanded MW-18 N= 1.2.4 pitting Tange SUS DUS Turks 10 1000 25. 1 : NO chart 6.67 24.04 1.28 194 H. 41. 61 92 .54 N. 1.5 22-27-534: blow 88= 225-4/ min 2 2. . . 20 8/17/5 ORP DO NN-16 1625 Set up at mw 2890 MW-28-90 0542-NW 05.12. W ... on pro 15. 1551 .. Reckwool ; 6.59 22 61 1.9 5 1632 6 19 26.11 11.00 PL= 30.75 ' bte Set up ... Sandley Time of two Samberd - 19 IV. 1545 any I 1536 La. 1530 1 608 hig 9191 ISIS 120 1533 1291

Attachment B

