Appendix C Job Diary Examples

The following examples of daily diary entries are provided to aid the NRCS quality assurance (QA) inspector when completing daily diary entries. Examples provided relate to the types of construction practices covered in NEH 645.

Each example daily diary entry is paginated. The first number corresponds to the NEH 645 chapter to which the example daily diary entry is directly associated. The second number corresponds to the number of the diary example.

This page intentionally left blank.

Sample Diary Entry 4.1 (Safety)

Report No. 101 Date May 1, 2009

Weather Partly cloudy Min. Temp 51° Max. Temp 63°

Precipitation 0 Inches Storm Period A.M. / P.M. A.M. / P.M.

Shift No. 2 App. Time A.M. / P.M. To A.M. / P.M.

Work Period 7:30 A.M. / P.M. 5:00 A.M. / P.M.

Work Force

	Skilled	Laborer
Superintendent C.J. Manning		
Foreman M.H. Brown	3	4

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
8	Excavation, common, foundation	yd^3	200/53500
9	Earthfill, embankment	yd^3	1800/45300

Narrative

I arrived on site at 7:00. Contactor excavating foundation for principal spillway conduit and placing earthfill on left half of dam. 9:00 I checked foundation of principal spillway at two locations and asked contractor's surveyor Tom Gray for a copy of his principal spillway layout notes. He said he would provide a copy of his notes to me tomorrow. 11:00 Observed Inspector Michael Aldridge checking in-place moisture and density of fill between stations 2+00 and 12+00. I discussed the need for him to pay particular attention to the moisture and density of the foundation and fill where the fill joins the abutment. He agreed and confirmed fill at abutment was not being compacted to the specified density. He discussed this with Foreman Brown and Mr. Brown

Sample Diary Entry 4.1 (Safety)—continued

directed the small compactor to the abutment area. 1:00 Mr. Aldridge informed me of the limits of non-conforming fill and that it had been removed and replaced with fill that met density and moisture requirements. 1:30 I noticed D6 dozer ran into fence at location approx. 200 feet downstream of dam Sta. 4+35. Forman Brown and I drove to the location and Brown asked the operator to turn off the dozer and step away. Operator, Fred Jones, smelled of alcohol and was having trouble explaining what happened. His speech was slurred and he was wobbly when he walked. Superintendent Manning drove up as operator Jones was exiting dozer. Mr. Brown took Mr. Jones to the contractor's field office. 2:00 I called CO Jane Macon and was instructed to contact the landowner and ask the contractor and landowner to negotiate to have the fence repaired. 2:10 I called the landowner Graves to explain what happened. He said he would be on site tomorrow and asked me to have the contractor temporarily repair the fence. I discussed the temporary repair with Mr. Manning. Mr. Manning had two laborers begin repair at 2:45 and complete temporary repair at 3:30. Mr. Manning informed me that Mr. Jones was escorted from the site at 2:30; and the company owner had been contacted. Mr. Manning said Mr. Jones would not be returning to the site. 5:00 All work ceased and contractor personnel left site. I informed Ms. Macon. 5:00 I checked moisture and density of fill at several locations along left abutment interface and found it to be in compliance with specification. I left site at 5:30. Dale McCurry

Sample Diary Entry 5.1 (Reporting Quantities of Imported Materials)

Report No. *129* Date *June 6, 2009*

Weather *Partly cloudy* Min. Temp *71°* Max. Temp *93°*

Precipitation *0* Inches Storm Period A.M. P.M. A.M. P.M.

Shift No. — App. Time A.M. P.M. To A.M. P.M.

Work Period *7:00* A.M. (P.M.) *5:00* (A.M.) P.M.

Work Force

	Skilled	Laborer
Superintendent *C.J. Manning*		
Foreman *M.H. Brown*	*3*	*4*

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
19	*Rock riprap (delivered)*	*Tons*	*240.2/936.1*
19	*Rock riprap (installed)*	*Tons*	*200/890*

Narrative

Contractor servicing equipment when I arrived at 7:00 a.m. Upon my arrival, contractor's surveyor began setting blue top stakes on downstream side of dam and finished setting stakes at 9:00 a.m. Contractor resumed placing rock riprap where he left off yesterday. Rock trucks began delivering rock at 9:00 a.m. and continued delivery until the last (eleventh) truck arrived at 3:00 p.m. Contactor stopped for lunch at noon and resumed placing riprap at 1:00 p.m. Motor grader performed finish grading on back of dam from 1:00 p.m. until 5:00 p.m. Contractor ceased placing rock and left site at 5:00 p.m. I left site at 5:30 p.m. J.D. Douglas

This page intentionally left blank.

Sample Diary Entry 6.1 (Erosion and Pollution Control)

Report No. 25 Date February 3, 2014

Weather Partly cloudy Min. Temp 28° Max. Temp 56°

Precipitation 0.8 Inches Storm Period 7:30 A.M. (P.M.) 8:30 A.M. (P.M.)

Shift No. App. Time A.M. (P.M.) To A.M. (P.M.)

Work Period 7:00 A.M. (P.M.) 5:00 A.M. (P.M.)

Work Force

Superintendent C.J. Manning Skilled Laborer

Foreman M.H. Brown

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
10	Concrete, bedding	CY	10
9	Conduit 30"	Ft	80/120

Narrative

Contractor servicing equipment when I arrived at 7:00 a.m. Ground is wet from rain yesterday. 7:30 Began to rain. Discussed progress with Mr. Manning. He admitted being behind schedule because of failure to order pipe so that it would be available when needed as scheduled. Rainfall ceased at 8:30. Mr. Manning and I inspected the site to assess stormwater BMPs and filled out the SWPPP inspection form. Mr. Manning noted need to regrade the diversion above stockpile #1 and remove sediment from immediately upstream of the silt fence located above and to the left side of the plunge basin. Otherwise, the plan and BMPs appear to be adequate and functioning as intended. 9:00 contractor began placing principal spillway conduit at P.S. Sta. 2+30. Work ceased for lunch at noon and resumed at 1:00. Completed laying conduit at 2:00. Concrete truck #48 from Tarrant Concrete arrived with 10 CY of concrete at 2:30. CQC inspector, Edwards, checked batch ticket #30245 and batch time (1:45) and tested concrete for air (4.5%), slump (6.0"), and temperature (56 oF). Began placing concrete in cradle at P.S. Sta. 1+90 at 2:50 with 25 minutes remaining. 3:30 Completed concrete placement at P.S. Sta. 3+10. Concrete truck was emptied and cleaned out in approved waste disposal pit. Time exceeded, but hole was closing as immersion vibrator exited the concrete. 1:00 – 2:00 Motorgrader #12 regrading diversion above stockpile #1. Front end loader #315 removing silt from above silt fence left of plunge basin. Excavated silt being loaded in dumptruck #14 and transported to top of hill near Gridline C and approx. dam CL 1+00. Engineer Booth on site 1:00 to 3:00 to observe conduit placement. Contractor ceased all operations and left site at 5:00 p.m. I left site at 5:30 p.m. J.D. Douglas

This page intentionally left blank.

Sample Diary Entry 7.1 (Foundation Preparation)

Report No. 23 Date June 6, 2012

Weather Partly cloudy Min. Temp 28° Max. Temp 56°

Precipitation 0 Inches Storm Period A.M. P.M. A.M. P.M.

Shift No. — App. Time A.M. P.M. To A.M. P.M.

Work Period 7:30 A.M. P.M. 5:00 A.M. P.M.

Work Force

	Skilled	Laborer
Superintendent C.J. Manning		
Foreman M.H. Brown	3	4

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
8	Excavation, foundation	yd^3	300/950
9	Earthfill, common	yd^3	250/450

Narrative

Contractor servicing equipment when I arrived at 7:00 a.m. Contractor resumed core trench excavation at Sta. 6+20. Excavated material being placed in previously excavated core trench Sta. 1+00 to 5+50. Engineer Booth arrived at 9:00 to look at potential low density material in core trench at planned grade from Sta. 5+50 to Sta. 6+20. Assisted Booth to obtain two samples of potential low density material which she transported to a soil mechanics lab. 12:00 – 1:00 lunchbreak. Contractor ceased core trench excavation at station 10+70 at 5:00 p.m. I left site at 5:30 p.m. J.D. Douglas

This page intentionally left blank.

Sample Diary Entry 7.2 (Removal of Water)

Report No. *34* Date *June 19, 2012*

Weather *Sunny* Min. Temp *58°* Max. Temp *75°*

Precipitation *0* Inches Storm Period A.M. P.M. A.M. P.M.

Shift No. *—* App. Time A.M. P.M. To A.M. P.M.

Work Period *7:30* A.M. P.M. *5:00* A.M. P.M.

Work Force

	Skilled	Laborer
Superintendent *C.J. Manning*		
Foreman *M.H. Brown*	*3*	*4*

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
6	*Excavation, Rock, Aux Spillway*	*yd³*	*200/650*
7	*Excavation, Aux Spillway*	*yd³*	*1500/8500*
9	*Earthfill, common*	*yd³*	*3000/20000*

Narrative

Superintendent and I arrived at 7:00 a.m. Contractor cleaning rock surface in core trench Sta. 3+40 to 3+60. 10:15 Excavating core trench at Sta. 8+40 uncovered a seep that began flowing into the core trench. Contractor began placing a berm and sump pump to contain seep. Superintendent asked what he should do about seep. I phoned the COR who said to continue efforts to contain seep. COR plans to be on site tomorrow. Contractor decided to cease operations near seep until COR arrives tomorrow. One trackhoe (#331) and end-dump truck (#2) idled. Contractor continued cleaning rock surfaces up to Sta. 8+00 until 5:00. Superintendent and I looked at seep at 4:00. The sump pump is able to keep seep water pumped from bermed area. Sump pump

Sample Diary Entry 7.2 (Removal of Water)—continued

requires refueling every two hours. Superintendent stated he would have someone on site overnight to service sump pump to keep it working. Contractor left at 5:30 p.m. I left site at 5:30 p.m. J.D. Douglas

Sample Diary Entry 7.3 (Excavation)

Report No. *34* Date *June 19, 2012*

Weather *Sunny* Min. Temp *58°* Max. Temp *75°*

Precipitation *0* Inches Storm Period A.M. P.M. A.M. P.M.

Shift No. *—* App. Time A.M. P.M. To A.M. P.M.

Work Period *7:30* A.M. P.M. *5:00* A.M. P.M.

Work Force

	Skilled	Laborer
Superintendent *C.J. Manning*		
Foreman *M.H. Brown*	*3*	*4*

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
6	*Excavation, Rock, Aux Spillway*	*yd³*	*200/650*
7	*Excavation, Aux Spillway*	*yd³*	*1500/8500*
9	*Earthfill, common*	*yd³*	*3000/20000*

Narrative

Contractor and I arrived at 7:00 a.m. Contractor resumed aux spillway excavation at AS Sta. 3+40. Blaster onsite to finish loading holes and preparing for 10:00 blast. At 9:00 blaster finished loading holes. At 9:30 Contractor ceased excavation in AS. Blast performed at 10:00 (see WS 7.3 dated today). Contractor immediately resumed AS excavation, including removing blasted rock between AS Sta. 5+00 and 5+50 left of AS CL. Usable excavated SC material being transported from AS to dam at approx lift elevaton 713 and placed in Zone 2 upsteam of Zone 1. Rocky material being removed from AS and stockpiled upstream along planned left descending shoreline. CL material from borrow area approx 200 to 300 feet upstream of dam CL sta 6+50 to

Sample Diary Entry 7.3 (Excavation)—continued

10+50 being placed in dam Zone 1. 12:00 – 1:00 lunchbreak. Excavation and fill operations continued until 5:00. At 4:00, Contractor began shaping and smooting borrow area and building a diversion to divert water away from borrow pit in anticipation of rain. Contractor left at 5:30 p.m. I left site at 5:30 p.m. J.D. Douglas

Sample Diary Entry 8.1 (Earthfill)

Report No. 27 Date June 6, 2012

Weather Partly cloudy Min. Temp 48° Max. Temp 66°

Precipitation 0.1 Inches Storm Period 8:15 (A.M.) P.M. 9:30 (A.M.) P.M.

Shift No. — App. Time A.M. P.M. To A.M. P.M.

Work Period 7:30 (A.M.) P.M. 5:00 A.M. (P.M.)

Work Force

	Skilled	Laborer
Superintendent C.J. Manning		
Foreman M.H. Brown	3	4

Estimated Quantities of Pay Work Accomplished

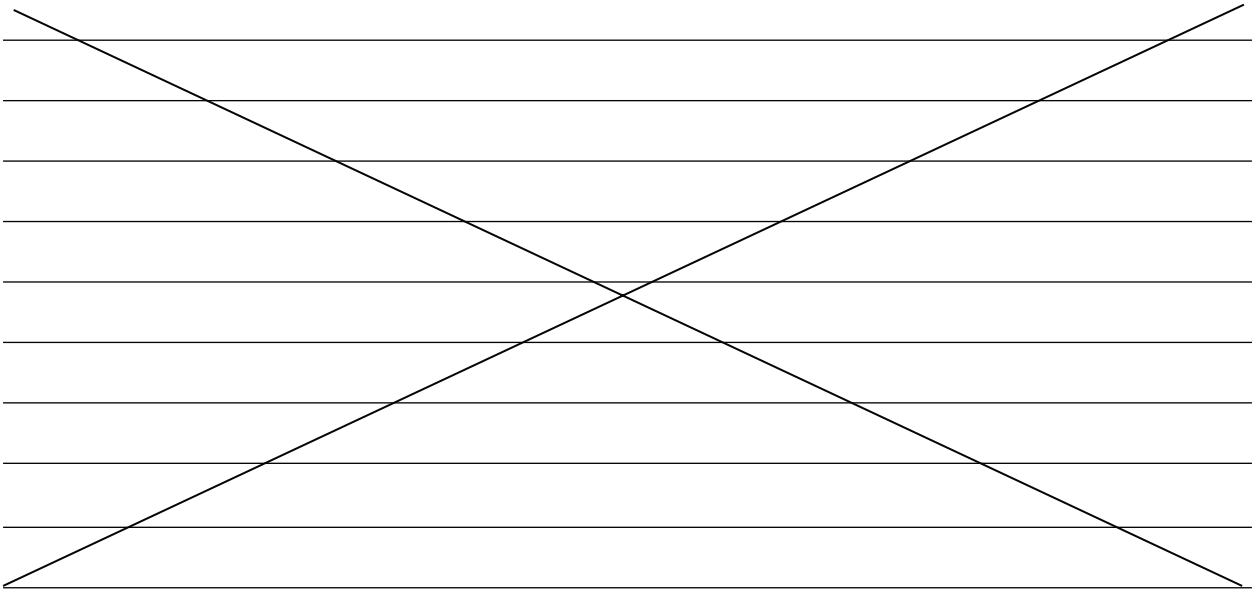
Item No.	Item	Unit	Quantity
7	Excavation, auxiliary spillway	C4	1,00/11,500
9	Earthfill, common	C4	2,500/19,500

Narrative

Contractor servicing equipment when I arrived at 7:00 a.m. 7:15 Contractor resumed earthfill placement from Dam CL Sta. 6+20 to Sta. 9+45 beginning at elevation 946.5. Zone 1 CL material being obtained from auxiliary spillway between AS Sta. 2+00 and 6+00. Material for Zones 2 (SM) and 3 (SP) being obtained from borrow area between Grids A and B at approximate dam CL Sta. 4+30 to 5+30 and between elevation 920 and 910. 8:00 Bill Joines (CQC)testing moisture and density with nuclear gauge. He and I discussed failed tests near abutements. I tested moisture and density near abutements with my gauge and confirmed failed tests

Sample Diary Entry 8.1 (Earthfill)—continued

(See 645 WS 8.11, Test No. 27). Joines discussed poor compaction effort near abutments with M.H. Brown. Brown directed compactor operator to reapply compactor over low-density areas and do a better job of compacting against abutment. 10:00 Joines tested compaction near abutements and confirmed density meets minimum requirement. 2:30 Water wagon idled with engine problem. Continued plowing uncompacted lift and started compaction of the lift El. 948.5 to 949. Able to get density above specified minimum but moisture is below specified range. Mr. Joines informed Brown that moisture had to be within specified range. Contractor ceased earthfill operations at 3:00 p.m. At Mr. Browns request I assisted him with selecting a Proctor curve for soil encountered at elevation 910 between Grids A and B. Although field classified as an SP, the soil is a different color than the material that was being placed in Zone 3. Brown used the one-point method to choose Proctor Curve #4 for this soil. I suggested he plot the point on the family of curves that he previously developed and compare the maximum density and optimum moisture values using both methods. After plotting his one-point density value on the family of curves and drawing a free-hand curve through the plotted point, he decided to use the optimum moisture and maximum density values determined by the family of curves. I observed his work and concur in his Proctor curve selection. I left site at 5:30 p.m. J.D. Douglas



Sample Diary Entry 8.2 (Earthfill Backfill)

Report No. *22* Date *June 1, 2012*

Weather *Partly cloudy* Min. Temp *50°* Max. Temp *68°*

Precipitation *0.2* Inches Storm Period *8:00* A.M. P.M. *9:00* A.M. P.M.

Shift No. — App. Time A.M. P.M. To A.M. P.M.

Work Period *7:30* A.M. P.M. *5:00* A.M. P.M.

Work Force

	Skilled	Laborer
Superintendent *C.J. Manning*		
Foreman *M.H. Brown*	*3*	*4*

Estimated Quantities of Pay Work Accomplished

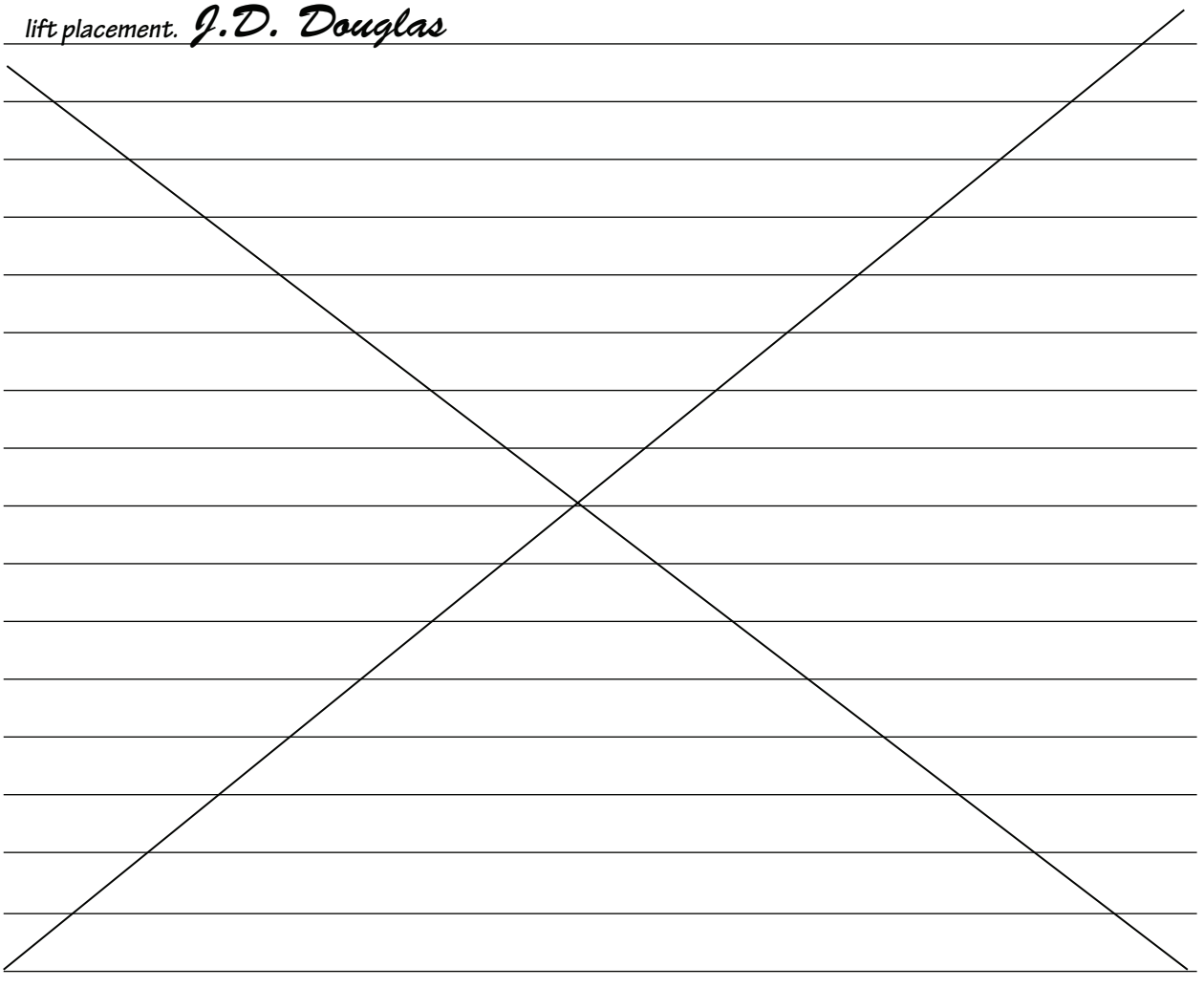
Item No.	Item	Unit	Quantity
9	*Earthfill, common*	*C4*	*100/11,500*
		C4	*2,500/19,500*

Narrative

I arrived at 7:00 a.m and checked moisture and density of backfill placed in area next to principal spillway conduit. Checked moisture obtained from nuclear gauge against that obtained with microwave. Performed trench correction and again checked moisture. The values obtained after making the trench correction were very near that obtained by microwave (See 645 WS 8.5, Test No. 9) . 7:30 Contractor arrived and began fueling equipment. Resumed backfill operation in conduit trench . Bill Joines (CQC)testing moisture and density with nuclear gauge. I noticed contractor removing some of the backfill material after it was tested. 8:00 rain began. Backfill

Sample Diary Entry 8.2 (Earthfill Backfill)—continued

operation ceased. 9:00 Two Wacker compactors were delivered from Ace Rental. 9:30 backfill operation resumed. Two compactors were added to the effort. It appeared the backfill lift thichness was being reduced. I asked Mr. Joines if there was a problem and he said "we can't meet the density requirement without cutting the lift thickness in half and pounding the hell out of it". I checked the density with my gauge and found it was significantly more than the mininmum specified density. I asked Joines if he had made a trench correction to his gauge; he had not made a trench correction. After making the trench correction, his test results began passing and the contractor was able to resume normal back fill operations without the extra compaction effort and with thicker lift placement. J.D. Douglas



Sample Diary Entry 8.3 (Rockfill)

Report No. 77 Date August 1, 2012

Weather Sunny Min. Temp 7° Max. Temp 98°

Precipitation 0.0 Inches Storm Period 8:00 A.M. P.M. 9:00 A.M. P.M.

Shift No. — App. Time A.M. P.M. To A.M. P.M.

Work Period 7:30 A.M. P.M. 5:00 A.M. P.M.

Work Force

	Skilled	Laborer
Superintendent C.J. Manning		
Foreman M.H. Brown	3	4

Estimated Quantities of Pay Work Accomplished

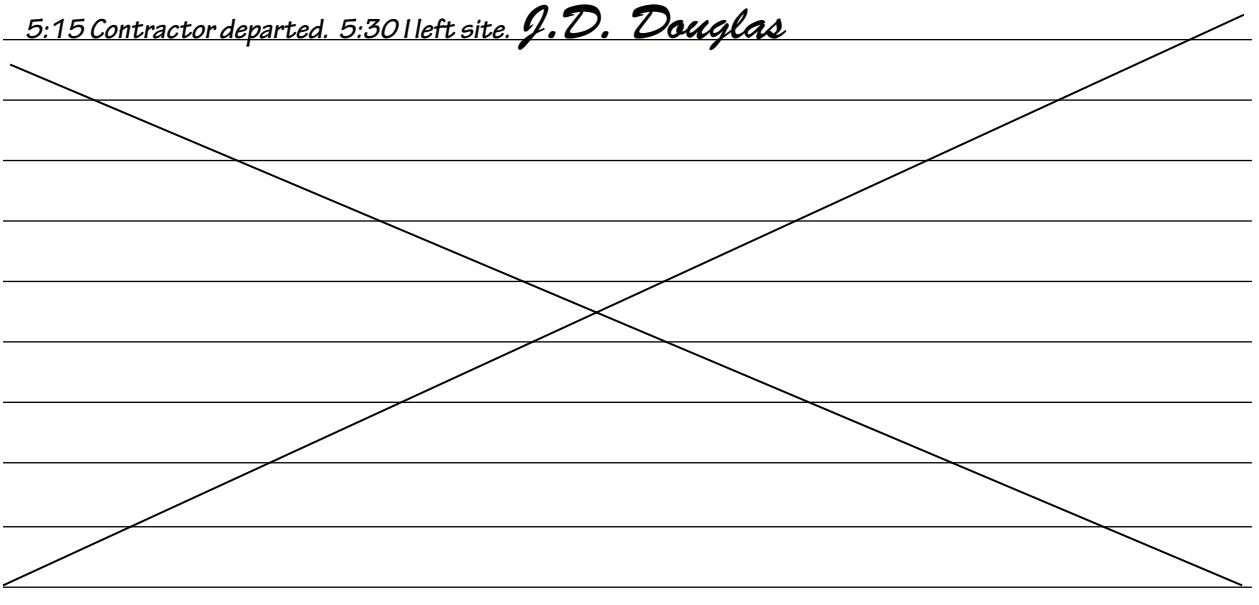
Item No.	Item	Unit	Quantity
10	Rockfilll	C4	2,000/4,200

Narrative

I arrived at 7:00 a.m. Contracter arrived shortly thereafter and began servicing equipment. 8:00 Bill Joines (CQC) and I discussed previous days rockfill placement. I pointed out that the Spec 25 limits lift thickness to three feet and that better control of lift thickness was needed. Bill discussed this with Mr. Manning. Rockfill operations began at 8:00. Rockfill material being obtained from material stockpiled in borrow area during Project Phase 1. Two Acme J22 dump trucks dumping rockfill. D8 dozer knocking down and spreading material and making four to six passes over lift after spreading. Dump trucks are having to wait on dozer to complete

Sample Diary Entry 8.3 (Rockfill)—continued

spreading and compaction before dumping their loads. 9:30 Truck driver Davis asked me if I was going to say something to the dozer operater about the lilfts being too thick. I explained that I had mentioned it to Joines and Joines mentioned it to Manning. Then I told him that I had painted the top of the previous lift in a couple of locations and was going to ask Joines to have the contractor dig back into the lift to measure the lift thickness later today. Davis asked "what happens if the lift is too thick?". I told him some or all of the lift would have to be removed and recompacted in order to comply with the spec. He got out of his truck and motioned for Mr. Manning who drove over to talk to Davis and I. Manning appeared upset that I had let them continue placing noncompliant rockfill. 10:00 Manning, Joines, and I met to discuss Manning's concern. Joines reminded Manning of their earlier discussion about the lifts appearing too thick, then he asked Manning to have the trackhoe operator dig back into the lift where I had painted the top of the previous lift. Four foot lift thickness observed at 50 feet left of dam CL Sta 2+00 and 4.5 foot lift thickness observed at 50 feet left of Sta 8+80. Manning directed trackhoe and dozer to remove one to two feet of the lift down to elevation 881. 1:00 trackhoe and dozer began removing portion of lift, recompacting, and replacing the material removed after compaction. 2:00 Another D8 dozer was delivered to the site and began assisting with spreading and compacting rockfill. 5:00 All operations ceased. 5:15 Contractor departed. 5:30 I left site. J.D. Douglas



Sample Diary Entry 9.1 (Soil Modification)

Report No. *101* Date *May 1, 2015*

Weather *Partly cloudy* Min. Temp *51°* Max. Temp *63°*

Precipitation *0* Inches Storm Period *8:15* (A.M.) P.M. *9:30* (A.M.) P.M.

Shift No. *2* App. Time A.M. P.M. To A.M. P.M.

Work Period *6:30* (A.M.) P.M. *5:15* (P.M.)

Work Force

	Skilled	Laborer
Superintendent *C.J. Manning*		
Foreman *M.H. Brown*	*3*	*4*

Estimated Quantities of Pay Work Accomplished

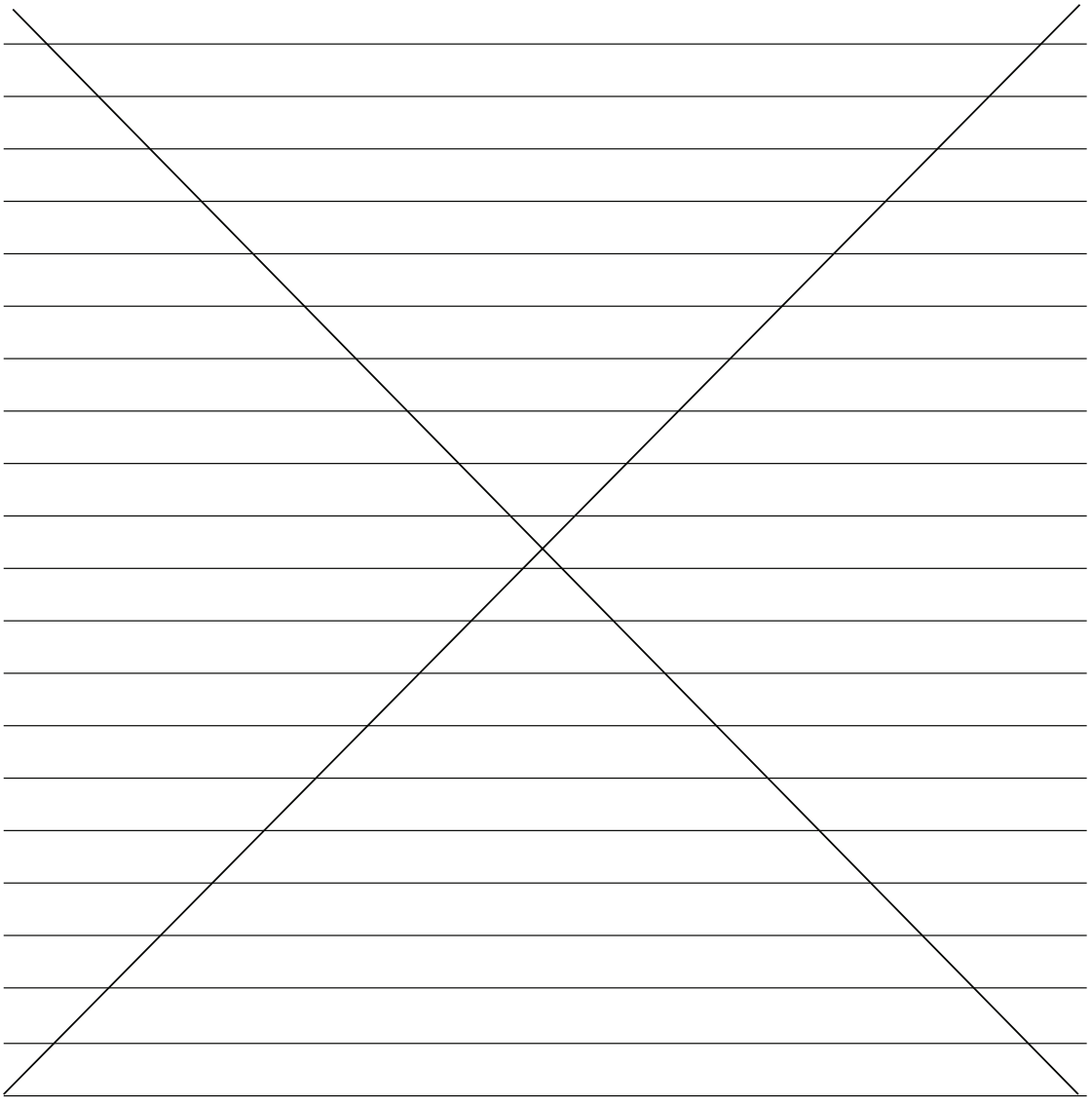
Item No.	Item	Unit	Quantity
1	*Soil-cement on wave berm*	*yd³*	*180*

Narrative

6:00 Inspector Johnson arrived on site. Cool and partly cloudy. 6:30 began placing soil-cement test cylinders taken and sent to lab. 7:35 compactor broke down after compacting from Sta. 6+25 to 7+45. Sta. 47+45 cut transverse vertical edge joint at the leading edge of compacted portion. Wasted uncompacted soil-cement that had been placed beyond Sta. 7+45. Quality control inspector, Joe Martin, prompted foreman Brown, to improve curing effort by immediately beginning misting soil cement after compaction. 9:30 placement operation resumed after compactor was repaired. 3:00 Ceased placement and compaction at Sta. 14+25. Cut transverse vertical

Sample Diary Entry 9.1 (Soil Modification)—continued

edge joint at leading edge at Sta. 14+25. 3:30 ceased misting and began applying curing compound. 1,067 yd^2 of curing compound sprayed on completed surface. Soil-cement covered with tarpaulins from Sta. 12+00 to 14+25 in anticipation of a hard rain. 5:15 I left site just as it began to rain. *Bradly Johnson*



Sample Diary Entry 10.1 (Geotextile Example)

Report No. *101* Date *May 1, 2016*

Weather *Partly cloudy* Min. Temp *51°* Max. Temp *63°*

Precipitation *0* Inches Storm Period A.M. / P.M. A.M. / P.M.

Shift No. *—* App. Time A.M. / P.M. To A.M. / P.M.

Work Period *7:30* A.M. / P.M. *3:30* A.M. / P.M.

Work Force

	Skilled	Laborer
Superintendent *L.D. Sohettler*		
Foreman *B.D Haynie*	*3*	*4*

Estimated Quantities of Pay Work Accomplished

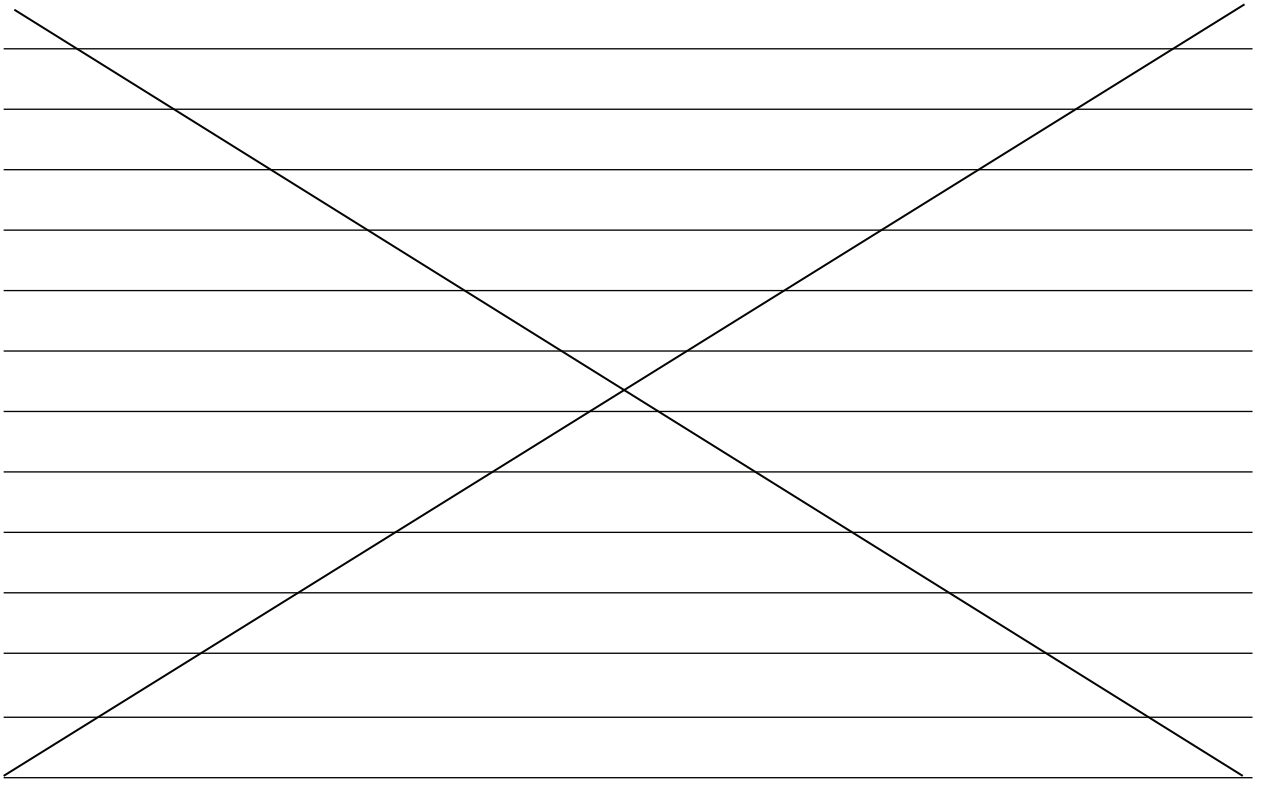
Item No.	Item	Unit	Quantity
19	*Geotextile, plunge basin*	*SY*	*240/670*
24	*Rock riprap, plunge basin*	*SY*	*96/180*

Narrative

Upon arrival to site at 7:00 a.m., I conducted a safety walk-through of the site. Mentioned employee not wearing hard hat to Mr. Schettler. Contractor tying steel and building forms for the inlet tower. Also moving geotextile from the campsite down to the plunge basin. One roll was not wrapped or protected from the sun so they cut off and wasted the outside portion that had been exposed. 225 track hoe began installing rock in plunge pool at 7:45. I could see the ground at the horizontal lap splice at approximate elevation 820. I asked QC Manager J. B. Thornton to look at it. J. B. discovered the geotextile that was below elevation 820 had slid down the slope. He said, "I don't think it was in continuous contact with the ground until the rock was dumped on it; then it slid down the slope.

Sample Diary Entry 10.1 (Geotextile Example)—continued

He discussed this with Mr. Haynie. They decided to reposition the geotextile that had been placed above elevation 820 so that it overlapped the lower geotextile by the specified minimum 1.5'. I talked to them about making sure that the geotextile continuously contacted the ground everywhere and overlapped a minimum of 1.5' before being covered with rock. I also mentioned that they should avoid placing more geotextile than could be covered with rock today or tomorrow. The track hoe broke down at 11:00; a hydraulic hose broke. Mr. Haynie said it would be tomorrow before they would have it fixed. Contractor stopped for lunch 12:00 to 1:00. I inspected the work they were doing on the inlet tower while they were at lunch. 1:00 discussed steel placement and forming with J. B. Showed him that the spacing was not right on several horizontal bars. He had them correct the spacing. A 23.6 ton load of rock was delivered to the stockpile near the plunge basin at 2:30. J. B. gave me a copy of the delivery ticket number 005682. Contractor continued tying steel and building forms until they ceased work and left site at 5:00 p.m. I left site at 5:00 p.m. Dale McCurry



Sample Diary Entry 10.2 (Geomembrane example)

Report No. 101 Date September 1, 2015

Weather Partly cloudy Min. Temp 51° Max. Temp 63°

Precipitation 0 Inches Storm Period A.M. / P.M. A.M. / P.M.

Shift No. — App. Time A.M. / P.M. To A.M. / P.M.

Work Period 7:30 A.M. / P.M. 5:30 A.M. / P.M.

Work Force

	Skilled	Laborer
Superintendent L.D. Sohettler		
Foreman B.D Haynie	3	4

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
13	Geomembrane	SY	0/265

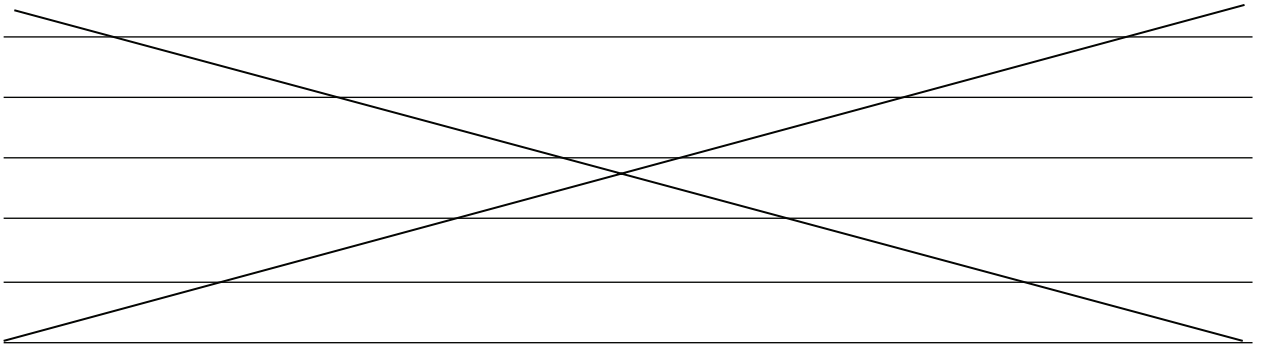
Narrative

Upon arrival to site at 7:00 a.m., I noticed the HDPE liner had pulled out of the anchor trench on the south and east side of the pit. 7:30 QC manager J. B. Thornton arrived and we walked around the pit to check to see if the liner was still in the trench on the north and west side. Dug down into the trench near the southwest and northeast corners and verified that the liner was still entrenched there. The liner on the north and west sides of the pit was covered yesterday afternoon; they plan to cover the remainder of the liner today. J. D. suggested that the anchor trench on the south and east sides of the pit be moved 1' closer to the edge so they could go ahead and anchor it now without waiting for it to warm up. I called engineer Katrina Chow. Kat said it would be okay to move the trench

Sample Diary Entry 10.2 (Geomembrane Example)—continued

closer to the pit. She asked me if all of the membrane had been deployed and I said yes. She suggested they go ahead and cover the portion of the membrane that had not been covered while it is still cool as long as they will have enough material at the top to anchor it after it is covered; then dig the new anchor trench and anchor the edge of the geomembrane. She also said to make sure the soil is placed and spread from the bottom up as specified. I discussed this with J. B. and he said "that sounds like a good plan". He went to talk to Mr. Haynie. 8:30 The 6-yard Ford dump truck and the 10 yard Freightliner began hauling dirt down the access ramp to the bottom of the pit. The D6 began spreading the material from the bottom up. 9:20 Cat backhoe began working on anchor trench at the southwest corner of the pit moving east. 11:10 The D6 finishing up covering the liner, two laborers began anchoring membrane in trench at SW corner moving toward the SE corner. J. B. had to tell them to fill the trench in two lifts and to compact each lift. They used a walk-behind plate vibrator to compact each lift of the material in the trench. I stuck a sharp-shooter into the compacted material in a couple of places to confirm that it had been well compacted. I followed J. B. as he dug down in several places to check the depth of cover. He placed a pin flag at a couple of locations where the depth was too shallow and had the dozer operator put more material over those areas. 4:45 All of the liner is covered except at one location on the east side and one location one the west side where the pipe boots have to be installed. They plan on installing these first thing in the morning. I dug down in a couple of places where I suspected the cover might be shallow but found that it was at least 1' deep in both places. No quantity recorded as complete since none was completely covered today. I left site at 5:30 p.m.

Dale McCurry



Sample Diary Entry 11.1 (Drains and Filters)

Report No. 101 Date May 1, 2016

Weather Partly cloudy Min. Temp 51° Max. Temp 63°

Precipitation 0 Inches Storm Period A.M. P.M. A.M. P.M.

Shift No. — App. Time A.M. P.M. To A.M. P.M.

Work Period 7:30 (A.M.) P.M. 5:30 A.M. (P.M.)

Work Force

	Skilled	Laborer
Superintendent L.D. Sohettler		
Foreman B.D Haynie	3	4

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
16	Fine filter	CY	80/450
17	Course filter	CY	25/110
18	6 inch PVC pipe	LF	35/125

Narrative

Arrived at site 7:00 a.m. Work was getting started on the foundation drain. All other work was suspended today. 7:30 a.m. met with QC inspector Thornton at the foundation drain installation. Case 450 loader, Cat 215 trackhoe and 4 laborers working. Checked the depth of the foundation drain trench (4.0 ft). QC set up his instrument and checked the grade of the foundation drain pipe invert at station 8+00. I checked his calculations and agreed that it was on grade. There was quite a bit of contamination of the fine filter from the surrounding soil. I told QC and he told the Supt. Laborers began cleaning up the soil with shovels. Later inspection showed that it was in good shape. 9:30 a.m. two loads of fine filter arrived. Truck drivers provided tickets to QC along

Sample Diary Entry 11.1 (Drains and Filters)—continued

with a current gradation from the sand plant. 12:00 lunch. 1:00 p.m. District Conservationist Watson visited site to take photos to update Conservation District board on progress. I gave Mr. Watson a tour of the site. When driving the site I noticed that the foundation drain crew was transporting a piece of non-perforated pipe to the work area. We followed them down to the work area to advise the QC that they should still be installing perforated pipe. He dug back into the previously installed zone to make sure it was perforated pipe. We went and counted the sticks of solid pipe to make sure this was the first time this had happened. QC had laborers separate the pipe into different areas so that this wouldn't happen again. Mr. Watson left at 2:45 p.m. 3:00 QC and I once again checked the dimensions of the foundation drain and the elevation of the pvc pipe invert. All was correct. We walked to approximately station 12+50 and looked at the area. The foundation drain is about 10 feet lower in this area and there is a concern that ground water will be at grade. I asked the QC what plans they had to deal with ground water in the foundation drain area. I read to him what the specifications said. He said that he would have to discuss it with the Supt but he thought it wouldn't be a problem. I suggested that they might want to explore it ahead of them getting started working in that area. 3:15 Call from COR Potts about quantities for progress payment. I got with Supt. Schettler and went over the quantities I had. He agreed so I called those quantities back to COR. COR also told me that material certifications had been received for the principle spillway slide gate and trash rack steel. He said that he would mail those items to the Washington County field office so that I could check them against material delivered. 5:30 p.m. work stopped for the day.

Dale McCurry

Diary Entries for RCC Construction

Record a description of the RCC placed and the conditions under which the work took place. This includes the weather conditions; information about the mix including proportioning and consistency; location of RCC placement; joint maturity and treatment details; details concerning compaction, finishing and curing processes; and other descriptions of the work performed.

This page intentionally left blank.

Sample Diary Entry 13.1 (RCC Construction)

Report No. 25 Date February 3, 2014

Weather Sunny Min. Temp 28° Max. Temp 56°

Precipitation Partly cloudy Inches Storm Period A.M. P.M. A.M. P.M.

Shift No. — App. Time A.M. P.M. To A.M. P.M.

Work Period 7:00 A.M. P.M. 5:00 A.M. P.M.

Work Force

	Skilled	Laborer
Superintendent C.J. Manning		
Foreman M.H. Brown	3	4

Estimated Quantities of Pay Work Accomplished

Item No.	Item	Unit	Quantity
10	RCC	CY	1025/5550
11	Excavation, Aux Spillway	Ton	103/555
12	Earthfill, common	Ton	51/278

Narrative

Contractor servicing equipment when I arrived at 7:00 a.m. Ground is wet from rain yesterday. 7:30 Began to rain. Discussed planned work with Mr. Manning. He said the rain is forecasted to stop later in the morning and the rate of rainfall is below 0.1 inch in 20 minutes so he is going to start RCC production at 8:00. I mentioned that he needs to do a better job of keeping the plastic sheeting down on the completed RCC; wind is getting under the plastic and drying out the surface of the RCC. He has ordered a load of bricks that are to arrive this morning; he is planning on weighting down the plastic with bricks. Began loading aggregate into pugmill at 8:00. Began placing RCC at 8:15. Using blowpipe to remove standing water ahead of RCC placement. Rainfall ceased at

Sample Diary Entry 13.1 (RCC Construction)—continued

8:30. All contractor forces devoted to RCC, no other work being conducted. Bricks arrive at 9:00. CQC checking RCC density at dam CL Sta 12+00, RCC CL Sta 2+55 (see WS 13.4, RCC Lift Summary for sketch of test location). I took measurement in the same hole. CQC measured 152.3 pcf. I measured 151.5 pcf. Both measurements exceed minimum specified density. 11:00 Engineer Booth on site to observe RCC placement. Mr. Manning asked if he could use the small compactor in lieu of the production compactor; the production compactor needs service. Agreed to allow small compactor if density can be obtained without damaging the surface. Able to get density with 6 passes of small compactor and surface is not drying out or cracking. RCC placement ceased at 1:00; lunch break. Engineer Booth left site at 1:30. Began removing and resetting RCC step forms at 2:00. CQC stopped form removal because the face of the steps was being damaged due to lack of care being taken to prevent forms from banging against the face of the steps. Mr. Manning agreed to supervise the form removal to ensure no further damage would occur. Resumed pulling and resetting forms. Plastic and soaker hoses in place for curing. Bricks seem to be doing a good job of holding down the plastic and the entire surface of the RCC under the plastic is being kept wet by the soaker hoses. Contractor finished resetting forms with no further damage. Contractor ceased all operations and left site at 5:00 p.m. I determined the RCC yield to be 0.97 CY per 300 lbs of cementitious material and plan to discuss with CQC in the morning. I left site at 5:30 p.m.

J.D. Douglas