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AUTH.NAME AUTHOR AFFILIATION
MANGAN,C.V. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
SCHWENCER,A. Licensing Branch 2

SUBJECT: Forwards results of QC test conducted upon completion of const of revetment ditch sys,per Question F241.17.Results include quarry measurement & weight insp & siever analyses conforming to ASTM C136-81.

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NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

March 5, 1985
(NMP2L 0354)

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Schwencer:

Re: Nine Mile Point Unit 2
Docket No. 50-410

As stated in our response to question F241.17, Niagara Mohawk was to provide the results of quality control tests upon completion of construction of the revetment ditch system by the first quarter of 1985. This information is attached and is submitted to aid your review for the resolution of question F241.17.

Very truly yours,

C. V. Mangan
Vice President
Nuclear Engineering & Licensing

DS:ja
Attachment
xc: R. A. Gramm, NRC Resident Inspector
Project File (2)

B001
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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of	)	
	)	
Niagara Mohawk Power Corporation	)	Docket No. 50-410
	)	
(Nine Mile Point Unit 2)	)	

AFFIDAVIT

C. V. Mangan, being duly sworn, states that he is Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

C V Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 5 day of March, 1985.

Janis M. Macro
Notary Public in and for
Onondaga County, New York

My Commission expires:

JANIS M. MACRO
Notary Public in the State of New York
Qualified in Onondaga County No. 4784555
My Commission Expires March 30, 1985

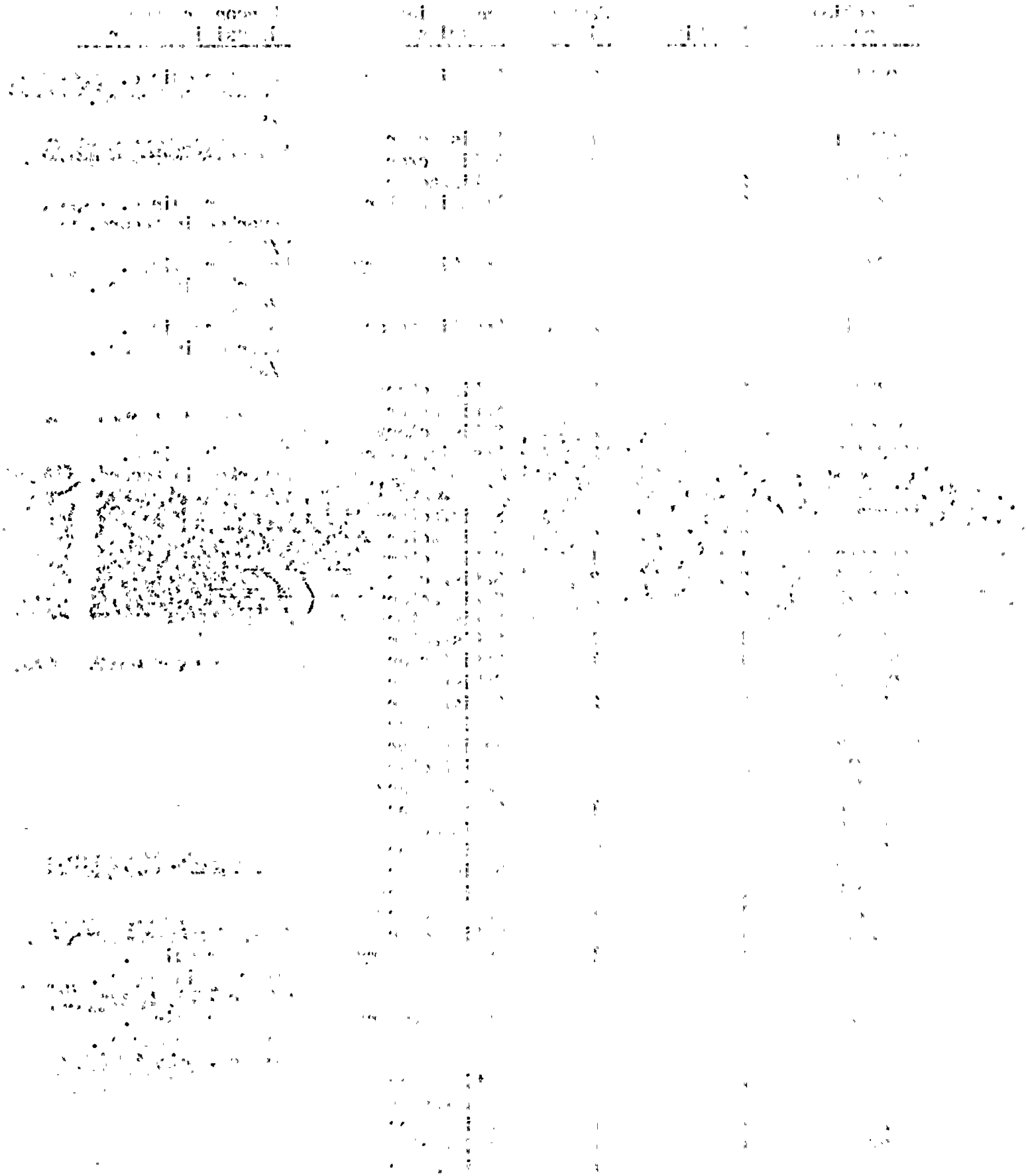
QUARRY MEASUREMENT & WEIGHT INSPECTION

Quarry production inspections were performed at the seller's quarry on production stone as it was produced. These inspections were performed with the geotechnical engineer on a twice weekly basis. Acceptance and rejection were based on sampling statistics from stone randomly selected from a given lot. Below find inspection and test results for those inspections.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S3028455	3,000	45	Unsatisfactory	N&D #4939
S3028994	81,200	180	Unsatisfactory	N&D #5057
S3029179	3,000	30	Unsatisfactory	N&D #5090
S3029180	90,000	30	Unsatisfactory	N&D #5090
S3029181	90,000	30	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3029572	3	3	Satisfactory	
S3029607	1	1	Satisfactory	
S3029863	1	1	Satisfactory	
S3030064	1	1	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3030360	1	1	Satisfactory	
S3030361	1	1	Satisfactory	
S3030383	1	1	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3030419	1	1	Satisfactory	
S3030522	1	1	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3030523	1	1	Satisfactory	
S3030675	1	1	Satisfactory	
S3030676	1	1	Satisfactory	
S3030810	1	1	Satisfactory	
S3030854	1	1	Satisfactory	
S3030855	1	1	Satisfactory	
S3030943	1	1	Satisfactory	
S3031094	2	2	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3031147	2	2	Satisfactory	
S3031276	2	2	Satisfactory	
S3031368	2	2	Satisfactory	
S3031486	2	2	Satisfactory	
S3031598	2	2	Satisfactory	
S3031705	2	2	Satisfactory	
S3031893	2	2	Satisfactory	
S3031921	1	1	Satisfactory	
S3032035	2	2	Satisfactory	

QUARRY MEASUREMENT & WEIGHT INSPECTION
(Continued)

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S3032142	2	2	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3032301	1	1	Satisfactory	
S3032350	2	2	Satisfactory	
S3032475	2	2	Satisfactory	
S3032568	2	2	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3032674	2	2	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3032819	2	2	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3032894	2	2	Satisfactory	
S3032949	2	2	Satisfactory	
S3033056	2	2	Satisfactory	
S3033183	2	2	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S3033344	2	2	Satisfactory	
S3033364	2	2	Satisfactory	
S3033553	1	1	Satisfactory	
S3033640	2	2	Satisfactory	
S3033677	2	2	Satisfactory	
S3033794	2	2	Satisfactory	
S3034031	1	1	Satisfactory	
S3034220	1	1	Satisfactory	
S4026467	2	2	Satisfactory	
S4026538	2	2	Satisfactory	
S4026545	2	2	Satisfactory	
S4026632	2	2	Satisfactory	
S4026717	2	2	Satisfactory	
S4026759	2	2	Satisfactory	
S4026384	1	1	Satisfactory	
S4026790	2	2	Satisfactory	
S4026862	2	2	Satisfactory	
S4026997	1	1	Satisfactory	
S4027051	1	1	Satisfactory	
S4027150	1	1	Satisfactory	
S4027214	1	1	Satisfactory	
S4027253	1	1	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S4027876	3	3	Unsatisfactory	No N&D required. Reworked in accord. w/spec
S4027315	1	1	Satisfactory	
S4027366	1	1	Satisfactory	
S4027402	1	1	Satisfactory	
S4027460	1	1	Satisfactory	
S4027540	1	1	Satisfactory	



QUARRY MEASUREMENT & WEIGHT INSPECTION
(Continued)

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4027620	1	1	Satisfactory	
S4027759	2	2	Satisfactory	
S4028035	3	3	Satisfactory	
S4028257	3	3	Satisfactory	
S4028258	3	3	Satisfactory	
S4028380	1	1	Satisfactory	
S4028499	1	1	Satisfactory	
S4028575	2	2	Satisfactory	
S4028806	2	2	Satisfactory	
S4028914	3	3	Satisfactory	
S4029015	1	1	Satisfactory	
S4029088	3	3	Satisfactory	
S4029115	1	1	Satisfactory	
S4029237	3	3	Satisfactory	
S4029240	1	1	Satisfactory	
S4029321	3	3	Satisfactory	
S4029373	1	1	Satisfactory	
S4029399	1	1	Satisfactory	
S4029434	1	1	Satisfactory	
S4029444	4	4	Satisfactory	
S4029469	1	1	Satisfactory	
S4029580	1	1	Satisfactory	
S4029614	1	1	Satisfactory	
S4029620	1	1	Satisfactory	

VISUAL ACCEPTANCE

This attribute was used to verify that the geotechnical engineer has visually examined the sample and has accepted it per the specification requirements. This examination was performed at the seller's quarry.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4026545	2	2	Satisfactory	
S4026632	2	2	Satisfactory	
S4026717	2	2	Satisfactory	
S4026759	2	2	Satisfactory	
S4026384	1	1	Satisfactory	
S4026790	2	2	Satisfactory	
S4026862	2	2	Satisfactory	
S4026997	1	1	Satisfactory	
S4027051	1	1	Satisfactory	
S4027150	1	1	Satisfactory	
S4027214	1	1	Satisfactory	
S4027253	1	1	Satisfactory	
S4027315	1	1	Satisfactory	
S4027366	1	1	Satisfactory	
S4027402	1	1	Satisfactory	
S4027460	1	1	Satisfactory	
S4027540	1	1	Satisfactory	
S4027620	1	1	Satisfactory	
S4029115	1	1	Satisfactory	
S4029240	1	1	Satisfactory	
S4029373	1	1	Satisfactory	
S4029399	1	1	Satisfactory	
S4029434	1	1	Satisfactory	
S4029469	1	1	Satisfactory	
S4029580	1	1	Satisfactory	
S4029614	1	1	Satisfactory	
S3031598	2	2	Satisfactory	
S3031705	2	2	Satisfactory	
S3031893	2	2	Satisfactory	
S3031921	1	1	Satisfactory	
S3032035	2	2	Satisfactory	
S3032142	2	2	Satisfactory	
S3032301	1	1	Satisfactory	
S3032350	2	2	Satisfactory	
S3032475	2	2	Satisfactory	
S3032568	2	2	Satisfactory	
S3032674	2	2	Satisfactory	
S3032819	2	2	Satisfactory	
S3032894	2	2	Satisfactory	
S3032949	2	2	Satisfactory	
S3033056	2	2	Satisfactory	
S3033183	2	2	Satisfactory	
S3033344	2	2	Satisfactory	

VISUAL ACCEPTANCE
(Continued)

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S3033364	2	2	Satisfactory	
S3033553	1	1	Satisfactory	
S3033640	2	2	Satisfactory	
S3033677	2	2	Satisfactory	
S3033794	2	2	Satisfactory	
S3034031	1	1	Satisfactory	
S3034220	1	1	Satisfactory	
S4026467	2	2	Satisfactory	
S4026538	2	2	Satisfactory	
S3028455	3,000	45	Satisfactory	
S3028994	81,200	180	Satisfactory	
S3029179	3,000	30	Satisfactory	
S3029180	90,000	30	Satisfactory	
S3029181	90,000	30	Satisfactory	
S3029572	3	3	Satisfactory	
S3029607	1	1	Satisfactory	
S3029863	1	1	Satisfactory	
S3030064	1	1	Satisfactory	
S3030360	1	1	Satisfactory	
S3030361	1	1	Satisfactory	
S3030383	1	1	Satisfactory	
S3030419	1	1	Satisfactory	
S3030522	1	1	Satisfactory	
S3030523	1	1	Satisfactory	
S3030675	1	1	Satisfactory	
S3030676	1	1	Satisfactory	
S3030810	1	1	Satisfactory	
S3030854	1	1	Satisfactory	
S3030855	1	1	Satisfactory	
S3030943	1	1	Satisfactory	
S3031094	2	2	Satisfactory	
S3031147	2	2	Satisfactory	
S3031276	2	2	Satisfactory	
S3031368	2	2	Satisfactory	
S3031486	2	2	Satisfactory	

INITIAL IN-PLACE SAMPLE

This was a test performed on each type of material, except granular filter material, that was placed above water during the initial placing operations to assure that the proposed procedures, methods and equipment would provide a well-graded mass of stone with maximum interlocking.

Sample size consisted of ten feet by ten feet areas with all stones measured and calculated for conformance to spec requirements.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
N/A	5	5	Unsatisfactory	7898

INITIAL ULI

This inspection consisted of measurement of 150 consecutive stones with the weight of each stone calculated. This inspection was performed at the engineer's direction in lieu of an in-place sample.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4027687	1	1	Unsatisfactory	No N&D required. Reworked in accord. w/spec

GRADATION #1 AND #2 FILTER MATERIAL

These tests were sieve analyses conforming to ASTM C136-81. These inspections/tests represent prequalification and in-process test.

Gradation #1 Filter Material

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S3029380	1000	1	Satisfactory	
S4027642	50	2	Satisfactory	
S4027880	60	1	Satisfactory	
S4028189	2000	1	Unsatisfactory	8473
S4029226	2000	1	Unsatisfactory	9489
S4029457	2000	1	Unsatisfactory	9619

Gradation #2 Filter Material

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S3029381	1000	1	Satisfactory	
S4027712	55	1	Satisfactory	
S4027738	10	1	Satisfactory	
S4027768	15	1	Satisfactory	
S4027643	50	1	Satisfactory	
S4027805	15	1	Satisfactory	
S4027879	80	1	Satisfactory	
S4029573	2000	2000	Unsatisfactory	9643
S4029488	2000	2000	Unsatisfactory	9547

FLOATERS/DRIFTING/DISPLACING

This inspection was performed at the site to stone as it was placed to ensure stone was placed without floating, drifting or manipulating the stone down the slope and without displacing the underlying layers. This was a random daily inspection documented on a summary inspection report. Each inspection report number represents one week's work.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4027759	2	2	Satisfactory	
S4027876	3	3	Satisfactory	
S4027759	2	2	Satisfactory	
S4028035	3	3	Satisfactory	
S4028257	3	3	Satisfactory	
S4028258	3	3	Satisfactory	
S4028380	1	1	Satisfactory	
S4028499	1	1	Satisfactory	
S4028575	2	2	Satisfactory	
S4028806	2	2	Satisfactory	
S4028914	3	3	Satisfactory	
S4029015	1	1	Satisfactory	
S4029088	3	3	Satisfactory	
S4029237	3	3	Satisfactory	
S4029321	3	3	Satisfactory	
S4029444	4	4	Satisfactory	

PLACING DOLOSSE

This was a visual inspection performed at the site to ensure that dolosse placed at the toe have horizontal flukes pointing inward and the ends of adjacent flukes are within spec tolerances.

These inspections were documented on a summary inspection report and each inspection report number represents one week's work.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4028380	1	1	Satisfactory	
S4028499	1	1	Satisfactory	
S4028575	2	2	Satisfactory	
S4028806	2	2	Satisfactory	
S4028914	3	3	Satisfactory	
S4029237	3	3	Satisfactory	
S4029321	3	3	Satisfactory	
S4029444	4	4	Satisfactory	

DOLOSSE LAYERS/DENSITY

This was a visual inspection performed at the site to ensure that concrete dolosse are uniformly distributed in two layers and the placing density is as indicated on the engineer's drawings.

These inspections were documented on a summary inspection report and each inspection report number represents one week's work.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4028380	1	1	Satisfactory	
S4028499	1	1	Satisfactory	
S4028575	2	2	Satisfactory	
S4028806	2	2	Satisfactory	
S4028914	3	3	Satisfactory	
S4029237	3	3	Satisfactory	
S4029321	3	3	Satisfactory	
S4029444	4	4	Satisfactory	

INTERLOCKING/MOUNDS/WINDROWS

This was a visual inspection performed at the site on a random daily basis to ensure stone was placed with maximum interlocking without mounds or windrows.

This inspection was documented on a summary inspection report and each inspection report number represents one week's work.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4027759	2	2	Satisfactory	
S4027876	3	3	Satisfactory	
S4027759	2	2	Satisfactory	
S4028035	3	3	Satisfactory	
S4028257	3	3	Satisfactory	
S4028258	3	3	Satisfactory	
S4028380	1	1	Satisfactory	
S4028499	1	1	Satisfactory	
S4028575	2	2	Satisfactory	
S4028806	2	2	Satisfactory	
S4028914	3	3	Satisfactory	
S4029015	1	1	Satisfactory	
S4029088	3	3	Satisfactory	
S4029237	3	3	Satisfactory	
S4029321	3	3	Satisfactory	
S4029444	4	4	Satisfactory	
S4029620	1	1	Satisfactory	

MINIMUM LAYERS/TOLERANCE

This inspection was performed on site and was a random daily inspection to ensure that stone was placed in the minimum number of layers required and to visually ensure stone was placed within spec tolerances.

These inspections were documented on a summary inspection report and each inspection report number represents one week's work.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4027759	2	2	Satisfactory	
S4027876	3	3	Satisfactory	
S4027759	2	2	Satisfactory	
S4028035	3	3	Satisfactory	
S4028257	3	3	Satisfactory	
S4028258	3	3	Satisfactory	
S4028380	1	1	Satisfactory	
S4028499	1	1	Satisfactory	
S4028575	2	2	Satisfactory	
S4028603	1	1	Unsatisfactory	9036
S4028806	2	2	Satisfactory	
S4028914	3	3	Satisfactory	
S4029015	1	1	Satisfactory	
S4029088	3	3	Satisfactory	
S4029237	3	3	Satisfactory	
S4029321	3	3	Satisfactory	
S4029444	4	4	Satisfactory	
S4029620	1	1	Satisfactory	

SURVEY NOTES

Survey data consisted of cross sections taken perpendicular to the axis of the revetment ditch at 25 feet intervals with each reading at five feet intervals (horizontal). This data also included station offset and design line elevation as required by the engineer's drawings and the as-built elevation in feet to the nearest tenth. All survey notes were submitted to SWEC FQC for review and approval.

Inspection Report #	Lot Size	Sample Size	Inspection Results	Nonconformance & Disposition Report #
S4029805	1	1	Satisfactory	