



**N3B-Los Alamos**  
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 (505) 257-7690



**Environmental Management**  
 Los Alamos Field Office  
 1200 Trinity Drive, Suite 400  
 Los Alamos, New Mexico 87544  
 (505) 257-7950/FAX (505) 606-2132

*Date:* August 6, 2021  
*Refer To:* N3B-2021-0241

Carol Johnson  
 Enforcement and Compliance Assurance Division  
 U.S. Environmental Protection Agency, Region 6  
 1201 Elm Street, Suite 500 (6 ECD-WR)  
 Dallas, Texas 75270-2102

**Subject: NPDES Permit No. NM0030759 – Analytical Results for Site Monitoring Areas CHQ-SMA-1.02, CHQ-SMA-6, and PJ-SMA-5 from the First Measurable Storm Event Following Certification of Enhanced Control Measures**

Dear Ms. Johnson:

This letter and enclosures are being submitted in accordance with the requirements of the U.S. Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Permit No. NM0030759, for discharges of storm water at Los Alamos National Laboratory. The permit was issued to Los Alamos National Security, LLC (LANS) and the U.S. Department of Energy, effective November 1, 2010, and on April 30, 2018, responsibilities, coverage, and liability transferred from LANS to Newport News Nuclear BWXT-Los Alamos, LLC (N3B). As specified in Part I, Section E.1(c),

Permittees shall certify completion of installation of control measures under this subsection to EPA within 30 days of completion of all such measures at the Site and, where applicable shall provide sampling results within 30 days of receipt of analytical results from the first measurable storm event after completion of such measures....

Accordingly, the analytical results from samples collected during the first measurable storm event received at three site monitoring areas (SMAs) (CHQ-SMA-1.02, CHQ-SMA-6, and PJ-SMA-5) in the last 30 days are enclosed. The reports provide references to the certificates of completion of the installation of the control measures. Table 1 includes information about the confirmation samples collected at the SMAs. The enclosed certified documents can also be accessed at the following website: <https://ext.em-la.doe.gov/ips>.

**Table 1**  
**Confirmation Samples Collected at CHQ-SMA-1.02, CHQ-SMA-6, and PJ-SMA-5 from the**  
**First Measurable Storm Event after Certification of Installation of Enhanced Controls**

Watershed	Priority	Site Number	SMA Number	Permitted Feature	Sample Collection Date	Data Receipt Date
Ancho/ Chaquehui	Moderate	33-004(h) 33-008(c) 33-011(d) 33-015	CHQ-SMA-1.02	Q002A	05/31/2021	07/08/2021 and 07/09/2021
Ancho/ Chaquehui	Moderate	33-004(j) 33-006(a) 33-007(b) 33-010(c) 33-010(g) 33-010(h) 33-014	CHQ-SMA-6	Q009	05/31/2021	07/07/2021
Pajarito	Moderate	22-015(c)	PJ-SMA-5	J005	05/30/2021	07/07/2021

If you have any questions, please contact Emily Day at (505) 695-4243 (emily.day@em-la.doe.gov) or M. Lee Bishop at (505) 257-7902 (lee.bishop@em.doe.gov).

Sincerely,



Troy Thomson  
Acting Program Manager  
Environmental Remediation  
N3B-Los Alamos

Sincerely,

M Lee  
Bishop

Digitally signed by M Lee  
Bishop  
Date: 2021.08.05  
13:41:02 -06'00'

M. Lee Bishop, Director  
Office of Quality and Regulatory Compliance  
U.S. Department of Energy  
Environmental Management  
Los Alamos Field Office

Enclosure(s): One hard copy with electronic files –

1. Analytical Results from the First Measurable Storm Event Following Certification of Enhanced Control Measures at CHQ-SMA-1.02 (EM2021-0447)
2. Analytical Results from the First Measurable Storm Event Following Certification of Enhanced Control Measures at CHQ-SMA-6 (EM2021-0445)
3. Analytical Results from the First Measurable Storm Event Following Certification of Enhanced Control Measures at PJ-SMA-5 (EM2021-0446)

cc (letter with hard-copy enclosure[s]):  
Susan Lucas Kamat, NMED-SWQB

cc (letter and enclosure[s] emailed):  
 Esteban Herrera, EPA Region 6, Dallas, TX  
 Curry Jones, EPA Region 6, Dallas, TX  
 Laurie King, EPA Region 6, Dallas, TX  
 Brent Larsen, EPA Region 6, Dallas, TX  
 Chris Catechis, NMED-DOE-OB/-RPD  
 Steve Yanicak, NMED-DOE-OB  
 Peter Maggiore, NA-LA  
 M. Lee Bishop, EM-LA  
 Arturo Duran, EM-LA  
 John Evans, EM-LA  
 Stephen Hoffman, EM-LA  
 David Nickless, EM-LA  
 Cheryl Rodriguez, EM-LA  
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 Felicia Aguilar, N3B  
 William Alexander, N3B  
 Sharon Brady, N3B  
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 Emily Day, N3B  
 Thomas Harrison, N3B  
 Debby Holgerson, N3B  
 Jeff Holland, N3B  
 Audrey Krehlik, N3B  
 Kim Lebak, N3B  
 Joseph Legare, N3B  
 Dana Lindsay, N3B  
 Pamela Maestas, N3B  
 Jason Moore, N3B  
 Joseph Murdock, N3B  
 Joseph Noll, N3B  
 Gerald O'Leary III, N3B  
 Karly Rodriguez, N3B  
 Troy Thomson, N3B  
 Steve Veenis, N3B  
 Tashia Vigil, N3B  
 Amanda White, N3B  
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 Public Reading Room (EPRR)  
 PRS website

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PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions	



**Analytical Results from the First Measurable  
Storm Event Following Certification  
of Enhanced Control Measures  
at CHQ-SMA-1.02**

**August 6, 2021**

**NPDES PERMIT NO. NM0030759**

**EM2021-0447**



NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS

PF: Q002A

CHQ-SMA-1.02

Sites: 33-004(h)  
33-008(c)  
33-011(d)  
33-015

The following certification of analytical results received from the confirmation monitoring samples collected after the completion of the installation of enhanced controls was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1.

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CERTIFICATION STATEMENT OF AUTHORIZATION

---

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

  
\_\_\_\_\_  
Steve Veenis, Water Program Director  
Environmental Remediation  
Newport News Nuclear BWXT-Los Alamos, LLC

July 23, 2021  
Date

M Lee Bishop   
Digitally signed by M Lee Bishop  
Date: 2021.08.05 13:41:42  
-06'00'

\_\_\_\_\_  
M. Lee Bishop, Director  
Office of Quality and Regulatory Compliance  
U.S. Department of Energy  
Environmental Management  
Los Alamos Field Office

\_\_\_\_\_  
Date



**NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS**

PF: Q002A

CHQ-SMA-1.02

Sites: 33-004(h)  
33-008(c)  
33-011(d)  
33-015

Tables 1 and 2 present the analytical results received from confirmation monitoring samples collected from the first measurable storm event following the installation and subsequent certification of enhanced controls at site monitoring area (SMA) CHQ-SMA-1.02. Final analytical results were received on July 8, 2021, and July 9, 2021. The descriptions and photographs of each enhanced control installed at CHQ-SMA-1.02 were provided to the U.S. Environmental Protection Agency on April 21, 2021 (N3B-2021-0080, EM2021-0202). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

**Table 1**

**Radiochemical Analytical Results from the First Measurable Storm Event  
Collected on May 31, 2021, Following Installation of Enhanced Controls at CHQ-SMA-1.02**

Sample ID	Analyte	Field Preparation	Detect Status	Result (pCi/L)	TAL Exceedance Ratio	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier <sup>e</sup>	Data Receipt Date
WT_IPC-21-228786	Radium-226 and Radium-228	Unfiltered	Detect	3.15	0.105	n/a <sup>b</sup>	0.332	NQ	7/9/2021
WT_IPC-21-228786	Gross alpha	Unfiltered	Detect	24.8	1.65	1.8	1.43	J	7/9/2021

Note: TAL exceedance ratio is the analytical result divided by the applicable average TAL (ATAL).

<sup>a</sup> Qualifier: NQ = Result is not qualified; J = result is estimated.

<sup>b</sup> n/a = Not applicable.

**Table 2**

**Metals and Organic Analytical Results from the First Measurable Storm Event  
Collected on May 31, 2021, Following Installation of Enhanced Controls at CHQ-SMA-1.02**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier <sup>a</sup>	Data Receipt Date
WT_IPC-21-228788	Aluminum	Filtered	Detect	110	0.147	19.3	50	NQ	7/9/2021
WT_IPC-21-228788	Antimony	Filtered	Nondetect	1	0.00156	1	3	UJ	7/9/2021
WT_IPC-21-228788	Arsenic	Filtered	Nondetect	2	0.222	2	5	U	7/9/2021
WT_IPC-21-228788	Boron	Filtered	Detect	16.9	0.00338	15	50	J	7/9/2021

**NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS**

PF: Q002A

CHQ-SMA-1.02

Sites: 33-004(h)  
33-008(c)  
33-011(d)  
33-015

Table 2 (continued)

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier <sup>a</sup>	Data Receipt Date
WT_IPC-21-228788	Cadmium	Filtered	Nondetect	0.3	0.3	0.3	1	U	7/9/2021
WT_IPC-21-228788	Chromium	Filtered	Nondetect	3	0.0143	3	10	U	7/9/2021
WT_IPC-21-228788	Cobalt	Filtered	Nondetect	1	0.001	1	5	U	7/9/2021
WT_IPC-21-228788	Copper	Filtered	Detect	5.2	1.21	0.3	2	NQ	7/9/2021
WT_IPC-21-228788	Lead	Filtered	Nondetect	0.5	0.0294	0.5	2	U	7/9/2021
WT_IPC-21-228786	Mercury	Unfiltered	Detect	0.121	0.157	0.067	0.2	J	7/9/2021
WT_IPC-21-228788	Nickel	Filtered	Detect	1.09	0.00641	0.6	2	J	7/9/2021
WT_IPC-21-228786	Selenium	Unfiltered	Nondetect	2	0.4	2	5	U	7/9/2021
WT_IPC-21-228788	Silver	Filtered	Nondetect	0.3	0.6	0.3	1	U	7/9/2021
WT_IPC-21-228788	Thallium	Filtered	Nondetect	0.6	0.0952	0.6	2	U	7/9/2021
WT_IPC-21-228788	Vanadium	Filtered	Detect	3.44	0.0344	1	5	J	7/9/2021
WT_IPC-21-228788	Zinc	Filtered	Detect	7.76	0.185	3.3	20	J	7/9/2021
WT_IPC-21-228786	Cyanide, weak acid dissociable	Unfiltered	Nondetect	1.67	0.167	1.67	5	U	7/9/2021
WT_IPC-21-228786	Total PCB <sup>b</sup>	Unfiltered	Detect	0.0194	30.3	NA	0.000123	J	7/8/2021

Notes: TAL exceedance ratio is the result divided by the smallest applicable TAL. Applicable TALs are the larger of the maximum TAL and minimum quantification level (MQL) or the larger of the average TAL or MQL.

<sup>a</sup> Qualifier: U = Result is not detected; NQ = result is not qualified; J = result is estimated; UJ = result is not detected and the detection limit is estimated.

<sup>b</sup> PCB = Polychlorinated biphenyls.

**NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS**

PF: Q002A

CHQ-SMA-1.02

Sites: 33-004(h)  
33-008(c)  
33-011(d)  
33-015

**Table 3  
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Radium-226 and radium-228	pCi/L	n/a <sup>a</sup>	n/a	30	n/a
Gross alpha	pCi/L	n/a	n/a	15	n/a
Aluminum	µg/L	7429-90-5	2.5	n/a	750
Antimony	µg/L	7440-36-0	60	640	n/a
Arsenic	µg/L	7440-38-2	0.5	9	340
Boron	µg/L	7440-42-8	100	5000	n/a
Cadmium	µg/L	7440-43-9	1	n/a	0.6
Chromium	µg/L	7440-47-3	10	n/a	210
Cobalt	µg/L	7440-48-4	50	1000	n/a
Copper	µg/L	7440-50-8	0.5	n/a	4.3
Lead	µg/L	7439-92-1	0.5	n/a	17
Mercury	µg/L	7439-97-6	0.005	0.77	1.4
Nickel	µg/L	7440-02-0	0.5	n/a	170
Selenium	µg/L	7782-49-2	5	5	20
Silver	µg/L	7440-22-4	0.5	n/a	0.4
Thallium	µg/L	7440-28-0	0.5	6.3	n/a
Vanadium	µg/L	7440-62-2	50	100	n/a
Zinc	µg/L	7440-66-6	20	n/a	42
Cyanide, weak acid dissociable	µg/L	57-12-5	10	5.2	22
Total PCB <sup>b</sup>	µg/L	1336-36-3	n/a	0.00064	n/a

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level; ATAL = average TAL;  
MTAL = maximum TAL. As allowed by Part I.D. of the Individual Permit, analytical results are compared with either the corresponding MTAL/ATAL (as applicable) or the MQL, whichever value is greater, for the purpose of determining the effectiveness of storm water control measures.

<sup>a</sup> n/a = Value is not applicable.

<sup>b</sup> PCB = Polychlorinated biphenyls.



**Analytical Results from the First Measurable  
Storm Event Following Certification  
of Enhanced Control Measures  
at CHQ-SMA-6**

**August 6, 2021**

**NPDES PERMIT NO. NM0030759**

**EM2021-0445**



NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS

PF: Q009

CHQ-SMA-6

Sites: 33-004(j)  
33-006(a)  
33-007(b)  
33-010(c)  
33-010(g)  
33-010(h)  
33-014

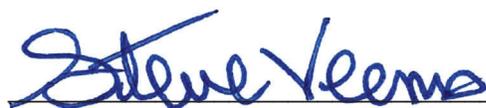
The following certification of analytical results received from the confirmation monitoring samples collected after the completion of the installation of enhanced controls was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1.

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**CERTIFICATION STATEMENT OF AUTHORIZATION**

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"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."



Steve Veenis, Water Program Director  
Environmental Remediation  
Newport News Nuclear BWXT-Los Alamos, LLC

July 23, 2021  
Date

M Lee Bishop

Digitally signed by M Lee  
Bishop  
Date: 2021.08.05 13:42:01  
-06'00'

M. Lee Bishop, Director  
Office of Quality and Regulatory Compliance  
U.S. Department of Energy  
Environmental Management  
Los Alamos Field Office

Date



**NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS**

PF: Q009

CHQ-SMA-6

Sites: 33-004(j)  
33-006(a)  
33-007(b)  
33-010(c)  
33-010(g)  
33-010(h)  
33-014

Tables 1 and 2 present the analytical results received from confirmation monitoring samples collected from the first measurable storm event following the installation and subsequent certification of enhanced controls at site monitoring area (SMA) CHQ-SMA-6. Final analytical results were received on July 7, 2021. The descriptions and photographs of each enhanced control installed at CHQ-SMA-6 were provided to the U.S. Environmental Protection Agency on August 17, 2015 (ADESH-15-108, LA-UR-15-25017). Table 3 presents each applicable target action level (TAL) for the analytes monitored.

**Table 1  
Radiochemical Analytical Results from the First Measurable Storm Event  
Collected on May 31, 2021, Following Installation of Enhanced Controls at CHQ-SMA-6**

Sample ID	Analyte	Field Preparation	Detect Status	Result (pCi/L)	TAL Exceedance Ratio	Minimum Detectable Activity (pCi/L)	Uncertainty (pCi/L)	Qualifier <sup>a</sup>	Data Receipt Date
WT_IPC-21-221403	Radium-226 and Radium-228	Unfiltered	Detect	1.21	0.0403	n/a <sup>b</sup>	0.212	NQ	7/7/2021
WT_IPC-21-221403	Gross alpha	Unfiltered	Detect	15.9	1.06	2.47	1.98	J	7/7/2021

Note: TAL exceedance ratio is the analytical result divided by the applicable average TAL (ATAL).

<sup>a</sup> Qualifier: NQ = result is not qualified. J = result is an estimate.

<sup>b</sup> n/a = Not applicable.

**NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS**

PF: Q009

CHQ-SMA-6

Sites: 33-004(j)  
33-006(a)  
33-007(b)  
33-010(c)  
33-010(g)  
33-010(h)  
33-014

Table 2

**Metals and Organic Analytical Results from the First Measurable Storm Event  
Collected on May 31, 2021, Following Installation of Enhanced Controls at CHQ-SMA-6**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier <sup>a</sup>	Data Receipt Date
WT_IPC-21-221405	Aluminum	Filtered	Detect	269	0.359	19.3	50	J+	7/7/2021
WT_IPC-21-221405	Antimony	Filtered	Nondetect	1	0.00156	1	3	U	7/7/2021
WT_IPC-21-221405	Arsenic	Filtered	Nondetect	2	0.222	2	5	U	7/7/2021
WT_IPC-21-221405	Boron	Filtered	Detect	16.1	0.00322	15	50	J	7/7/2021
WT_IPC-21-221405	Cadmium	Filtered	Nondetect	0.3	0.3	0.3	1	U	7/7/2021
WT_IPC-21-221405	Chromium	Filtered	Nondetect	3	0.0143	3	10	U	7/7/2021
WT_IPC-21-221405	Cobalt	Filtered	Nondetect	1	0.001	1	5	U	7/7/2021
WT_IPC-21-221405	Copper	Filtered	Detect	39.5	9.19	0.3	2	NQ	7/7/2021
WT_IPC-21-221405	Lead	Filtered	Nondetect	0.5	0.0294	0.5	2	U	7/7/2021
WT_IPC-21-221403	Mercury	Unfiltered	Detect	0.096	0.125	0.067	0.2	J	7/7/2021
WT_IPC-21-221405	Nickel	Filtered	Detect	0.869	0.00511	0.6	2	J	7/7/2021
WT_IPC-21-221403	Selenium	Unfiltered	Nondetect	2	0.4	2	5	U	7/7/2021
WT_IPC-21-221405	Silver	Filtered	Nondetect	0.3	0.6	0.3	1	U	7/7/2021
WT_IPC-21-221405	Thallium	Filtered	Nondetect	0.6	0.0952	0.6	2	U	7/7/2021
WT_IPC-21-221405	Vanadium	Filtered	Detect	1.23	0.0123	1	5	J	7/7/2021
WT_IPC-21-221405	Zinc	Filtered	Detect	3.82	0.091	3.3	20	J	7/7/2021
WT_IPC-21-221403	Cyanide, weak acid dissociable	Unfiltered	Nondetect	1.67	0.167	1.67	5	U	7/7/2021
WT_IPC-21-221403	RDX <sup>b</sup>	Unfiltered	Nondetect	0.0833	0.000416	0.0833	0.26	U	7/7/2021
WT_IPC-21-221403	Trinitrotoluene[2,4,6-]	Unfiltered	Nondetect	0.0833	0.00417	0.0833	0.26	U	7/7/2021

Notes: TAL exceedance ratio is the result divided by the smallest applicable TAL. Applicable TALs are the larger of the maximum TAL and minimum quantification level (MQL) or the larger of the average TAL or MQL.

<sup>a</sup> Qualifier: U = Result is not detected; NQ = result is not qualified; J = result is estimated; UJ = result is not detected and the detection limit is estimated.

<sup>b</sup> RDX = Royal Demolition Explosive.

**NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS**

PF: Q009

CHQ-SMA-6

Sites: 33-004(j)  
33-006(a)  
33-007(b)  
33-010(c)  
33-010(g)  
33-010(h)  
33-014

**Table 3  
Applicable TALs**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Radium-226 and radium-228	pCi/L	n/a <sup>a</sup>	n/a	30	n/a
Gross alpha	pCi/L	n/a	n/a	15	n/a
Aluminum	µg/L	7429-90-5	2.5	n/a	750
Antimony	µg/L	7440-36-0	60	640	n/a
Arsenic	µg/L	7440-38-2	0.5	9	340
Boron	µg/L	7440-42-8	100	5000	n/a
Cadmium	µg/L	7440-43-9	1	n/a	0.6
Chromium	µg/L	7440-47-3	10	n/a	210
Cobalt	µg/L	7440-48-4	50	1000	n/a
Copper	µg/L	7440-50-8	0.5	n/a	4.3
Lead	µg/L	7439-92-1	0.5	n/a	17
Mercury	µg/L	7439-97-6	0.005	0.77	1.4
Nickel	µg/L	7440-02-0	0.5	n/a	170
Selenium	µg/L	7782-49-2	5	5	20
Silver	µg/L	7440-22-4	0.5	n/a	0.4
Thallium	µg/L	7440-28-0	0.5	6.3	n/a
Vanadium	µg/L	7440-62-2	50	100	n/a
Zinc	µg/L	7440-66-6	20	n/a	42
Cyanide, weak acid dissociable	µg/L	57-12-5	10	5.2	22
RDX <sup>b</sup>	µg/L	121-82-4	n/a	200	n/a
Trinitrotoluene[2,4,6-]	µg/L	118-96-7	n/a	20	n/a

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level; ATAL = average TAL; MTAL = maximum TAL. As allowed by Part I.D. of the Individual Permit, analytical results are compared with either the corresponding MTAL/ATAL (as applicable) or the MQL, whichever value is greater, for the purpose of determining the effectiveness of storm water control measures.

<sup>a</sup> n/a = Value is not applicable.

<sup>b</sup> RDX = Royal Demolition Explosive.



**Analytical Results from the First Measurable  
Storm Event Following Certification  
of Enhanced Control Measures  
at PJ-SMA-5**

**August 6, 2021**

**NPDES PERMIT NO. NM0030759**

**EM2021-0446**



NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS

PF: J005

PJ-SMA-5

Site: 22-015(c)

The following certification of analytical results received from the confirmation monitoring samples collected after the completion of the installation of enhanced controls was performed in accordance with NPDES Permit No. NM0030759, Part I.E.1.

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**CERTIFICATION STATEMENT OF AUTHORIZATION**

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"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations."

  
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Steve Veenis, Water Program Director  
Environmental Remediation  
Newport News Nuclear BWXT-Los Alamos, LLC

July 23, 2021  
Date

M Lee Bishop

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Bishop  
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M. Lee Bishop, Director  
Office of Quality and Regulatory Compliance  
U.S. Department of Energy  
Environmental Management  
Los Alamos Field Office

\_\_\_\_\_  
Date



**NEWPORT NEWS NUCLEAR BWXT-LOS ALAMOS, LLC  
CERTIFICATION OF ANALYTICAL RESULTS**

PF: J005

PJ-SMA-5

Site: 22-015(c)

Table 1 presents the analytical results received from confirmation monitoring samples collected from the first measurable storm event following the installation and subsequent certification of enhanced controls at site monitoring area (SMA) PJ-SMA-5. Final analytical results were received on July 7, 2021. The descriptions and photographs of each enhanced control installed at PJ-SMA-5 were provided to the U.S. Environmental Protection Agency on December 14, 2020 (N3B-2020-0434, EM2020-0633). Table 2 presents each applicable target action level (TAL) for the analytes monitored.

**Table 1  
Metals and Organic Analytical Results from the First Measurable Storm Event  
Collected on May 30, 2021, Following Installation of Enhanced Controls at PJ-SMA-5**

Sample ID	Analyte	Field Prep	Detect Status	Result (µg/L)	TAL Exceedance Ratio	Method Detection Limit	Quantitation Limit	Qualifier*	Data Receipt Date
WT_IPC-21-221603	Copper	Filtered	Detect	549	128	3	20	NQ	7/7/2021

Notes: TAL exceedance ratio is the result divided by the smallest applicable TAL. Applicable TALs are the larger of the maximum TAL and minimum quantification level (MQL) or the larger of the average TAL or MQL.

\* Qualifier: NQ = result is not qualified.

**Table 2  
Applicable TAL**

Analyte	Units	CAS No.	MQL	ATAL	MTAL
Copper	µg/L	7440-50-8	0.5	n/a*	4.3

Notes: CAS = Chemical Abstracts Service; MQL = minimum quantification level; ATAL = average TAL; MTAL = maximum TAL. As allowed by Part I.D. of the Individual Permit, analytical results are compared with either the corresponding MTAL/ATAL (as applicable) or the MQL, whichever value is greater, for the purpose of determining the effectiveness of storm water control measures.

\* n/a = Value is not applicable.

