# NPDES Compliance Inspection Manual

Appendix P



EPA Publication Number: 305-K-17-001 Interim Revised Version, January 2017

# Appendix P – Sludge Inspection Checklists

Sludge	<b>Inspection Checklist</b>
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Yes	No	N/A	Are 40 CFR Part 503 sludge use and disposal requirements contained in a cur NPDES permit, in a separate "sludge only" NPDES permit, in a RCRA Subtitle permit, or in a CAA permit? [503.3(a)(1) or (2) (1)]	
		-	Sludge use and disposal practice(s):	
Yes	No	N/A	a. Land Application [503.10]	
			Bulk Sewage Sludge [503.11(e)]	
			Bulk Material Derived from Sewage Sludge [503.11(e)]	
			Or	
			Sold or Given Away in a Bag or Another Container [503.11(e)]	
Yes	No	N/A	b. Surface Disposal [503.20]	
Yes	No	N/A	c. Sewage Sludge Incineration [503.40]	
Yes	No	N/A	<ul> <li>Onsite or Offsite Storage [503.9(y)]</li> </ul>	
			Date storage began ended	
			(Maximum time allowed: 2 years from February 19, 1993)	
Yes	No	N/A	e. Other (list)	
Yes	No	N/A	Each sludge use or disposal practice is permitted? [503.3(a)(1) (1)]	
Yes	No	N/A	Notification is given to EPA/State of new or different sludge disposal method (Permit)	1?
Yes	No	N/A	Number and location of disposal sites/activities are as described in the perm fact sheet or land application plan (40 CFR Part 501)? [Permit]	it or
Comr	ments	:		
Yes	No	N/A	Self-monitoring data are available for all regulated pollutants? [503.17], [503 [503.43]	3.27],
Yes	No	N/A	Pathogen and vector attraction reduction method description and certification statement(s) available? [503.17], [503.27]	on
Yes	No	N/A	. Records are available for each applicable use or disposal practice? [503.17], [503.27], [503.47]	
Yes	No	N/A	Accurate records of sludge volume or mass are maintained, where appropria [503.25], [503.47]	ate?
Yes	No	N/A	<ul> <li>Monitoring and analyses are performed more often than required by permit so, results are reported in the permittee's self-monitoring report? [Permit]</li> </ul>	? If
Yes	No	N/A	Unit operations records verify compliance with pathogen and vector attracti reduction requirements, where appropriate? [503.15], [503.25]	on
Yes	No	N/A	. Self-monitoring is conducted at the frequency specified in the permit, in 503 Table 1 (land application), or in 503.26 Table 1 (surface disposal)? [503.16],	.16

			Siddge inspection checkist
			[503.26] or [503.46] Table 1. Production-dependent – 0-289 mtpy: 1/yr., 290- 1499 mtpy: 1/qtr., 1500-14999 mtpy: ½ mo., 15000 mtpy and greater, 1/mo.) mtpy-metric ton per year
Yes	No	N/A	<ol> <li>Facility reports sludge monitoring data at the frequency specified in the permit? (Only for Class I facilities or POTWs with either total design flow &gt;1 mgd or serving population &gt;10,000) [503.18], [503.28], [503.48]</li> </ol>
Yes	No	N/A	9. Sludge records are maintained for at least 5 years? [503.17], [503.27], [503.47]
Yes	No	N/A	10.Sludge data are reported on Discharge Monitoring Report (DMR) or approved form? [Permit]
Yes	No	N/A	11.Sludge records are adequate to assess compliance with annual and/or cumulative pollutant loading rates or other established permit limits? [503.13(a) (2) (i), 503.13(a) (4) (ii)]
Com	nents	:	
Yes	No	N/A	1. Sludge samples are taken at locations specified in the permit? [Permit]
Yes	No	N/A	<ol> <li>Sludge sample locations are appropriate for obtaining representative samples? [503.8(a)</li> </ol>
Yes	No	N/A	3. Sampling and analysis are conducted for parameters specified in the permit or in 40 CFR Part 503? [Permit], [503.13], [503.23], [503.46]
	1	1	4. Sample collection procedures:
Yes	No	N/A	a. Adequate sample volumes are obtained?
Yes	No	N/A	b. Proper preservation techniques are used?
Yes	No	N/A	c. Containers conform to appropriate analytical method specified in 40 CFR Part 503.8?
Yes	No	N/A	<ul> <li>Samples analyzed in the appropriate time frames in accordance with 40 CFR Part 503.8?</li> </ul>
Yes	No	N/A	<ul> <li>5. Are results reported on a dry weight basis? [503.13], [503.23], [503.43]</li> <li>(Dry weight concentration =</li> </ul>
			Wet weight concentration/Decimal fraction of solids)
			e.g., A sludge containing 20 mg/l Cu and having 5% solids.
			Dry weight Cu (mg/kg) = <u>20 mg/1</u> = 400 mg/kg 0.05
Yes	No	N/A	6. Sample is refrigerated subsequent to compositing?
Yes	No	N/A	7. Chain-of-custody procedures are employed?
Yes	No	N/A	8. Analytical methods used are approved methods in 40 CFR Part 503.8 or updated methods specified for Part 503 compliance?

Comi	ments	:	
Voc	No		1. Sludge process control parameters maintained as appropriate?
Yes	No	N/A	1. Sludge process control parameters maintained as appropriate?
Yes	No	N/A	<ol> <li>Adequate equipment redundancy (e.g., back-up units)?</li> <li>Adequate eludes storage especific?</li> </ol>
Yes	No	N/A	3. Adequate sludge storage capacity?
Yes	No	N/A	4. Contingency plan for sludge disposal practice?
Yes		N/A	5. Solids handling operation adequate to manage volume of sludge?
Comi	ments	:	
		-	
Yes	No	N/A	<ol> <li>Is primary unstabilized sludge fed to the thickener, centrifuge or drying bed?</li> <li>If yes, list percentage of unstabilized sludge</li> </ol>
Yes	No	N/A	<ol> <li>What is the average % solids of the sludge before thickening, drying or centrifuging? % after? %</li> </ol>
Yes	No	N/A	3. Is sludge mixed with other materials before or after thickening?
Yes	No	N/A	4. For sludge containing unstabilized solids, is the percent solids greater than 90% prior to mixing with other materials?
Yes	No	N/A	5. For sludge containing no unstabilized solids, is the percent solids greater than 75% prior to mixing with other materials?
Comi	ments	:	
			<ol> <li>Sludge fed to digester(s) includes:</li> <li>PrimarySecondaryCombined</li> </ol>
			2. Digester(s) operating mode:high rate low rate
Yes	No	N/A	<ol> <li>Digester(s) are operated at proper temperature [mesophilic: 95°F (35°C) and thermophilic: 131°F (55°C)?</li> </ol>
			List operating mode: mesophilic thermophilic
Yes	No	N/A	<ol> <li>Temperature monitoring location and frequency sufficient to demonstrate compliance with Class B pathogen reduction requirements for PSRP?</li> </ol>
			Average Temperature:°C or °F

Sludge	Inspection	Checklist
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Yes	No	N/A	5.	Solids Retention Time (SRT) or Mean Cell Residence time (MCRT) calculated properly? *
Yes	No	N/A	6.	SRT or MCRT sufficient to demonstrate compliance with Class B pathogen reduction requirements for PSRP?
				Average SRT or MCRT:days
				*For batch operated digesters with no recycle:
				SRT or MCRT = Mass of solids in digester, kg Solids removed, kg/day
				This formula can be used to estimate SRT or MCRT for all digester systems. For calculating SRT or MCRT for other system configurations, use the WEF Manual of Practice or other references. Always write down the calculation used by the facility no matter what the configuration is.
Comn	nents	:		
			1.	Sludge fed to digester(s) includes: PrimarySecondaryCombined
			2.	Digester(s) operating mode:high rate low rate
Yes	No	N/A	3.	Digester(s) are operated at proper temperature [cryophilic: <50°F (<10°C), mesophilic: 50-108°F (10-42°C), and thermophilic: >108°F (42°C)?
				List operating mode: cryophilic mesophilic thermophilic
Yes	No	N/A	4.	Temperature monitoring location and frequency sufficient to demonstrate compliance with Class B pathogen reduction requirements for PSRP or with Class A pathogen reduction requirements for PFRP (Thermophilic aerobic digestion only)?
		1		Average Temperature:°C or °F
Yes	No	N/A	5.	Solids Retention Time (SRT) or Mean Cell Residence time (MCRT) calculated properly? *
Yes	No	N/A	6.	SRT or MCRT sufficient to demonstrate compliance with Class B pathogen reduction requirements for PSRP or with Class A pathogen reduction requirements for PFRP (Thermophilic digestion only)?
			Av	erage SRT or MCRT:days
Yes	No	N/A	7.	Aerobic conditions verified through dissolved oxygen monitoring?
				*For batch operated digesters with no recycle:
				SRT or MCRT = Mass of solids in digester, kg Solids removed, kg/day
				This formula can be used to estimate SRT or MCRT for all digester systems. For calculating SRT or MCRT for other system configurations, use the WEF Manual of

Sludge	Inspection	Checklist
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			Practice or other references. Always write down the calculation used by the facility no matter what the configuration is.
Comr	nents	:	
			Type of composting performed:     In vessel Static piles Windrows
			Type of sludge composted:     Primary Secondary Combined
Yes	No	N/A	3. Is the moisture content monitored?
Yes	No	N/A	4. Is compost mixed? Method?
			Frequency of turnings?
Yes	No	N/A	5. Is oxygen content monitored?
Yes	No	N/A	6. Is temperature monitored?
Yes	No	N/A	7. Are total and total volatile solids monitored?
			8. Active phase days
			Curing phase days
Yes	No	N/A	9. Is site runoff treated? Where?
Yes	No	N/A	10. Temperature monitoring location and frequency sufficient to demonstrate compliance with Class B pathogen reduction requirements for PSRP or with Class A pathogen reduction requirements for PFRP?
Yes	No	N/A	11. Temperature and/or oxygen monitoring sufficient to determine compliance with vector attraction reduction requirements?
Comr	nents	:	
Yes	No	N/A	1. Sewage sludge or material derived from sewage sludge is land applied to:
			Agricultural LandForestReclamation SiteLawn or Home GardenPublic Contact Site (Park, etc.)
Yes	No	N/A	<ol> <li>Do monitoring results show pollutant concentrations below values shown in Table 1 in 40 CFR Part 503.13(b)(1)? [Part 503.13(a)(1)<sup>(2)</sup></li> </ol>
Yes	No	N/A	<ol> <li>Do monitoring results show pollutant concentrations below values shown in 40 CFR Part 503.13(b)(3)?<sup>(3)</sup></li> </ol>
			<ol> <li>Classifications of Sewage Sludge with respect to Pathogens: [503.30]<sup>(4)</sup></li> <li>Class A Class B Unknown</li> </ol>
Yes	No	N/A	5. Are Class A Pathogen reduction requirements met? [503.15(a) <sup>(4)</sup>

			6. Indicate which method is used to meet Class A requirements: [503.32(a)
			Fecal Coliform <1000 MPN/g total solids, or Salmonella <3 MPN/4 g total solids, and Time/Temperature requirements. [503.32(a)(3)
			Fecal Coliform <1000 MPN/g total solids, or Salmonella <3 MPN/4 g total solids, and pH requirements. [503.32(a)(4)
			Fecal Coliform <1000 MPN/g total solids, or <i>Salmonella</i> <3 MPN/4 g total solids, and enteric viruses or helminth ova reduction requirements. [503.32(a)(5)
			Fecal Coliform <1000 MPN/g total solids, or <i>Salmonella</i> <3 MPN/4 g total solids, and enteric viruses or helminth ova density requirements. [503.32(a)(6)
			<ul> <li>Fecal Coliform &lt;1000 MPN/g total solids, or Salmonella &lt;3 MPN/4 g total solids, and Process to Further Reduce Pathogens (PFRP). [503.32(a)(7) and [503 Appendix B] (5)</li> </ul>
			Fecal Coliform <1000 MPN/g total solids, or Salmonella <3 MPN/4 g total solids, and equivalent PFRP. [503.32(a)(8) and [503 Appendix B] (5)
Yes	No	N/A	7. Are Class B Pathogen reduction requirements met? [503.32(b) <sup>(4)</sup>
			8. Indicate which method(s) is used to meet Class B requirements:
			Geometric mean of seven Fecal Coliform samples with <2,000,000 MPN/g total solids or <2,000,000 Colony Forming Units/g total solids. [503.32(b)(2)
			Treated by Process to Significantly Reduce Pathogens (PSRP). [503.32(b)(3) and [503 Appendix B] <sup>(5)</sup>
			Treated by equivalent PSRP. [503.32(b)(4) and [503 Appendix B] $^{(5)}$
Yes	No	N/A	<ul> <li>9. For Class B sludge which is land applied, are Site Restrictions practiced? [503.32 (b)(5) (4)</li> </ul>
Yes	No	N/A	10. Indicate Site Restrictions practiced where applicable:
			Food crops (above ground) are harvested >14 months after application of sewage sludge? [503.32(b)(5)(i)
			Food Crops (below ground) are harvested >20 months after application of sewage sludge when sludge stays on land for >4 months prior to incorporation into soil? [503.32(b)(5)(ii)
			Food Crops (below ground) are harvested >38 months after application of sewage sludge when sludge stays on land for <4 months prior to incorporation into soil? [503.32(b)(5)(iii)
			Food Crops, feed crops, and fiber crops are harvested >30 days after application of sewage sludge? [503.32(b)(5)(iv)
			Animal grazing allowed on land only >30 days after application of sewage sludge? [503.32(b)(5)(v)
			Turf grown on land where sewage sludge was applied placed on high public expose land or lawn is harvested >1 year after application of sewage sludge? [503.32(b)(5)(vi)
			Public access is restricted to land with a potential for high public exposure for 1 year? [503.32(b)(5)(vii)

			Sludge inspection checklist
			Public access is restricted to land with a potential for low public exposure for 30 days? [503.32(b)(5)(viii)
Yes	No	N/A	11. Is a Vector Attraction Reduction method practiced? [503.15(c) (6)
Yes	No	N/A	12.Indicate Vector Attraction Reduction method: [503.33(b)
			38% Volatile Solids Reduction. [503.33(b)(1) (7)
			40-day test - Volatile Solids reduced <17%. [503.33(b)(2) (Anaerobic Digestion Only)
			30-day test - Volatile Solids reduced <15%. [503.33(b)(3) (Aerobic Digestion Only)
			Specific Oxygen Uptake Rate (SOUR) <1.5 mg/hr./gm TS @ 20°C. [503.33(b)(4)
			Aerobic Process for >14 days @ >40°C with average sludge temperatures >45°C. [503.33(b)(5)
			pH >12 for 2 hours and pH >11.5 for 22 hours [503.33(b)(6)
			Sludge (with no unstabilized solids) contains >75% Total Solids prior to mixing with other materials. [503.33(b)(7)
			Sludge (contains unstabilized solids) contains >90% Total Solids prior to mixing with other materials. [503.33(b)(8)
			Subsurface Injection. [503.33(b)(9)
			Soil Incorporation. [503.33(b)(10)
Yes	No	N/A	13. Are general requirements (503.12) and management practices (503.14) applied for sludge not meeting Table 3 pollutant concentrations, Class pathogen reduction requirements, and vector attraction reduction methods? [503.10], [503.12], [503.14]
Yes	No	N/A	14. Indicate management practices where applicable:
			No threatened or endangered species present or critical habitat affected at the location(s) where bulk sludge is applied.
			Bulk sludge not applied to frozen or snow covered ground.
			Bulk sludge applied >10 meters from waters of the U.S.
			Bulk sludge applied at a rate equal to or less than agronomic rate.
			Label affixed on bag or information sheet provided to user of sold and given away sludge indicating name of sludge preparer, application instructions, and maximum annual whole sludge application rate.
Yes	No	N/A	15. Indicate general requirements practiced where applicable:
			Sludge is not applied to a site where the cumulative pollutant loading or annual application rate has been reached.
			Notification given to the sludge applier regarding total nitrogen content of the sludge.
			Sufficient information required to comply with 40 CFR Part 503 is given to preparers/appliers/land owners.

				Sludge Inspection	on Checklis	st	
					-	uthority (including S opriate NPDES perr	
Yes	No	N/A	16. Description of available?	how managemen	t practices a	re met for each lan	d application site
Com	ments	:					
Land	Appli	cation	Footnotes:				
	rmits a eening		required. Part 503 is	self-implementing.	Part 503 does	s not cover industrial	sludges or grit and
<sup>(2)</sup> 503		(1), Tal ole 1 (m		met to land apply sl	udge:		
Ars	senic		75	Lead	840	Nickel	420
Ca	dmium		85	Mercury	5757	Selenium	100
Co	pper		4300	Molybdenum	75	Zinc	7500
	pply. Tal rsenic	ole 2 (n	ng/kg): 41	Lead	300	Selenium	100
Ca	admiur	n	39396	Mercury	17	Zinc	2800
Co	opper		1500	Nickel	420		
se re fr <sup>(5)</sup> Pr Co	ewage s equiren om slu rocess ompos	sludge i nents co dge is a to Signi ting, an	is sold or given away ombined with appro pplied to agricultura ficantly Reduce Path d Lime Stabilization	y in a bag or another opriate site restrictio al land, reclamation nogens (PSRP) includ . Process to Further	container. Al ns must be m site, forest, o es Aerobic Di Reduce Patho	to a lawn or home gar lso, Class A requireme let for when bulk or b r public contact site. ligestion, Air Drying, A ogens (PFRP) includes radiation, Gamma Ray	ents or Class B oulk material derived naerobic Digestion, Composting, Heat
Pa	asteuri	zation.		-	-	monstrate complianc	
la w	nd, for hen lar	est, a p nd appl	ublic contact site, o	r a reclamation site. a lawn or home gard	One of the m	ving bulk sewage slud lethods 503.33(b)(1)- lewage sludge or deri	(8) must be met
			reduction through t wing general formu	-	train [only] i	s generally calculated	using the Van Klee
ç			n = (Mass of solids i Is in, kg	n, kg X Mass of solid	s out, kg) x 10	00	

			ite: <u>http://www.epa.gov/ORD/NRMRL/Pubs/1992/625R92013.html</u> .
Yes	No	N/A	<ol> <li>Does each Surface Disposal Unit (SDU) have a liner and leachate collection system?</li> </ol>
			2. Smallest distance from active SDU boundary to property boundary is ft.
Yes	No	N/A	<ol> <li>For an active SDU (property boundary is greater than 150 meters from SDU) and without a liner or leachate collection system, do monitoring results show pollutant concentrations below values shown in 40 CFR Part 503.23(a)(1) Table 1 [503.23(a)(1)<sup>(1)</sup></li> </ol>
Yes	No	N/A	4. For an active SDU without a liner and leachate collection system (property boundary is less than 150 meters from SDU), do monitoring results show pollutant concentrations below values shown in 40 CFR Part 503.23(a)(2) Table 2 [503.23(a)(1) <sup>(2)</sup>
Yes	No	N/A	5. Are management practices employed? [503.24]
Yes	No	N/A	6. List management practices where applicable:
			No threatened or endangered species present or critical habitat affected at the location where bulk sludge is surface disposed.
			Surface disposal unit shall not restrict flow of base flood.
			If in seismic impact zone, design will withstand recorded horizontal ground acceleration.
			Located > 60 meters from any fault displaced in Holocene time.
			Not located in unstable area or wetlands.
			Runoff collection and treatment with 25-year, 24-hour storm runoff event storage capacity.
			Leachate collection system operated and maintained for 3 years after closure of the surface disposal unit.
			Leachate treated and disposed of in accordance with applicable requirements, i.e., NPDES permit.
			Methane is contained under covered units at a concentration less than 25% of the LEL for methane.
			Methane is contained under a final cover placed on a closed unit maintained at a concentration less than 25% of the LEL for methane for three years after closure.
			Methane concentration at the property line is maintained at a concentration less than the LEL for methane for three years after closure of the unit.
			No feed or food crops grown on active unit. <sup>(3)</sup>
			No animal grazing allowed on active unit. <sup>(3)</sup>
			Public access restricted for the period of time while a unit is active and for three years after last active unit in a site closes.

			Sludge inspection checklist
			Sludge placed in an active unit does not contaminate groundwater aquifers. <sup>(4)</sup>
Yes	No	N/A	7. Classification of Sewage Sludge with respect to Pathogens: [503.30]
			Class A Class B Unknown
Yes	No	N/A	8. Are Class A Pathogen reductions requirements met? [503.15(a) <sup>(5)</sup>
			9. Indicate which method is used to meet Class A requirements: [503.32(a)
			Fecal Coliform <1000 MPN/g total solids, or Salmonella <3 MPN/4 g total solids and Time/Temperature requirements. [503.32(a)(3)
			Fecal Coliform <1000 MPN/g total solids, or <i>Salmonella</i> <3 MPN/4 g total solids and pH requirements. [503.32(a)(4)
			Fecal Coliform <1000 MPN/g total solids, or <i>Salmonella</i> <3 MPN/4 g total solids and enteric viruses or helminth ova reduction requirements. [503.32(a)(5)
			Fecal Coliform <1000 MPN/g total solids, or Salmonella <3 MPN/4 g total solids and enteric viruses or helminth ova density requirements. [503.32(a)(6)
			Fecal Coliform <1000 MPN/g total solids, or Salmonella <3 MPN/4 g total solids and Process to Further Reduce Pathogens (PFRP). [503.32(a)(7) and [503 Appendix B]
			Fecal Coliform <1000 MPN/g total solids, or Salmonella <3 MPN/4 g total solids and equivalent PFRP. [503.32(a)(8) and [503 Appendix B] <sup>(7)</sup>
Yes	No	N/A	10. Are Class B Pathogen reduction requirements met? [503.32(b) (5)
			11. Indicate which method(s) is used to meet Class B requirements:
			Geometric mean of seven Fecal Coliform samples with <2,000,000 MPN/g total solids or <2,000,000 Colony Forming Units/g total solids. [503.32(b)(2)
			Treated by Process to Significantly Reduce Pathogens (PSRP). [503.32(b)(3) and [503 Appendix B] <sup>(6)</sup>
			Treated by equivalent PSRP. [503.32(b)(4) and [503 Appendix B] <sup>(6)</sup>
Yes	No	N/A	12. Is a Vector Attraction Reduction method practiced? [503.25(b) <sup>(7)</sup>
Yes	No	N/A	13. Indicate Vector Attraction Reduction method: [503.33(b)
			38% Volatile Solids Reduction. [503.33(b)(1)
			40-day test - Volatile Solids reduced <17%. [503.33(b)(2) (Anaerobic Digestion Only)
			30-day test - Volatile Solids reduced <15%. [503.33(b)(3) (Aerobic Digestion Only)
			Specific Oxygen Uptake Rate (SOUR) <1.5 mg/hr./gm TS @ 20°C. [503.33(b)(4)
			Aerobic Process for >14 days @ >40°C with average sludge temperatures >45°C. [503.33(b)(5)
			pH >12 for 2 hours and pH >11.5 for 22 hours $[503.33(b)(6)$
			Sludge (with no unstabilized solids) contains >75% Total Solids prior to mixing with other materials. [503.33(b)(7)
			Sludge (contains unstabilized solids) contains >90% Total Solids prior to mixing with other materials. [503.33(b)(8)

				Sludge Inspect	ion Checklist		
			Subsurface	e Injection. [503.33	(b)(9)		
			Soil Incorp	oration. [503.33(b)	(10)		
			Sludge cov	vered with soil or ot	her material at	the end of the da	y. [503.33(b)(11)
Yes	No	N/A	14. Have any SD	Us been closed?			
Yes		N/A		submitted closure a	nd post closure	plan for any activ	e SDU 180 davs
		,		osing? [503.22(c)		,,,,	
Com	ments	:					
Surfa	ace Dis	posal I	ootnotes:				
		•		et for all sludge placed	d in an active surf	ace disposal unit w	ith a distance of
				boundary of the surfa			
				uthority in accordanc			
			ig/kg - dry weight				
Ar	senic		73	Chromium	600	Nickel	420
<sup>(2)</sup> Ta	ble 2 of	f 503.23	B(a)(2) must be me	et for all sludge placed	d in an active surf	ace disposal unit w	ith a distance of
				ndary of the surface of			
als	so be se	t by the	e permitting autho	ority in accordance wi	th 503.23(b).		
	Tal	ole 2 (m	ng/kg - dry weight	basis)			
D	istance	betwe	en unit boundary		Pollutan	t Concentration (m	g/kg)
ar	nd prop	erty lin	e (m)				
					Arsenic	Chromium	Nickel
	0 to l	ess tha	n 25		30	200	210
	25 to less than 50 50 to less than 75				34	220	240
					39	260	270
	75 to	less th	an 100		46	300	320
	100 t	o less t	han 125		53	360	390
	125 t	o less t	han 150		62	450	420
<sup>(3)</sup> L	Inless s	pecific a	approval from the	permitting authority	has been obtaine	d by the facility.	
	•		-	ndwater monitoring s	• •		dwater scientist or
				oundwater scientist to			
	-			en reduction requirer uction method 503.3			
•				uction method 503.3	3(D)(11), Covering	g sludge at the end	of the day, is used.
							1. 5
		-	ficantly Reduce Pa	thogens (PSRP) inclu	des Aerobic Diges		-
C	ompost	ting, an	ficantly Reduce Pa d Lime Stabilizatio	thogens (PSRP) inclue n. Process to Further	des Aerobic Diges Reduce Pathoge	ns (PFRP) includes (	Composting, Heat
C D	ompost rying, H	ting, an Ieat Tre	ficantly Reduce Pa d Lime Stabilizatio eatment, Thermop	thogens (PSRP) inclue n. Process to Further hilic Aerobic Digestio	des Aerobic Diges Reduce Pathoge n, Beta Ray Irrad	ns (PFRP) includes ( iation, Gamma Ray	Composting, Heat Irradiation, and
C D P	ompost rying, H asteuri:	ting, an Ieat Tre zation.	ficantly Reduce Pa d Lime Stabilizatio eatment, Thermop	thogens (PSRP) inclue n. Process to Further	des Aerobic Diges Reduce Pathoge n, Beta Ray Irrad	ns (PFRP) includes ( iation, Gamma Ray	Composting, Heat Irradiation, and

Yes	No	N/A	1. Does the incinerator meet the definition of a sewage sludge incinerator?
Yes		N/A	<ol> <li>Do sewage sludge monitoring results show pollutant concentrations below permit limits?</li> </ol>
Yes	No	N/A	3. Does THC monitoring show concentrations below 100 ppm (monthly average)?
Yes	No	N/A	4. Are there instruments installed that continuously measure and record THC (or alternatively CO), oxygen concentration, moisture content, and combustion temperatures?
Yes	No	N/A	<ol><li>Is the THC instrument calibrated as required by 503.45 (once every 24-hour period using propane) or the permit?</li></ol>
Yes	No	N/A	6. Are the other instruments calibrated as required by the permit?
Yes	No	N/A	7. Are the instruments operated and maintained as specified by the permit?
Yes	No	N/A	<ol> <li>How many times was the incinerator operated at above the maximum combustion temperature specified in the permit?</li> </ol>
			For how long was the incinerator in operation above the maximum combustion temperature?
Yes	No	N/A	9. How many times was the incinerator operated outside the range of the air
			pollution control devices operating parameters specified in the permit?
			For how long was the incinerator in operation outside the ranges?
Yes	No	N/A	10. Are the following records maintained:
Yes	No	N/A	Concentration of lead, arsenic, cadmium, chromium, and nickel in the sewage sludge fed to the sewage sludge incinerator.
Yes	No	N/A	THC concentrations in the exit gas.
Yes	No	N/A	Information that indicates NESHAP for beryllium in Subpart C of 40 CFR Part 61 met.
Yes	No	N/A	Information that indicates NESHAP for mercury in Subpart E of 40 CFR Part 61 is met.
Yes	No	N/A	Combustion temperatures, including maximum combustion temperature.
Yes	No	N/A	Values for air pollution control device operating parameters.
Yes	No	N/A	Oxygen concentration.
Yes	No	N/A	Information used to measure moisture content in the exit gas.
Yes	No	N/A	Sewage sludge feed rate.
Yes	No	N/A	Stack height of incinerator.
Yes	No	N/A	Dispersion factor for the site.
Yes	No	N/A	Control efficiency for lead, arsenic, cadmium, chromium, and nickel.
Yes	No	N/A	Risk specific concentration for chromium (if applicable).
Yes	No	N/A	Calibration and maintenance log for the instruments used to measure THC (or CO), oxygen concentration, moisture content, and combustion temperatures.

Yes	No	N/A	Are these records maintained for 5 years?	
Yes	No	N/A	11. Have all instances of noncompliance been reported as specified by the permit?	
Comn	nents	:		