Proposed Amendment to the Water Quality Control Plan – Los Angeles Region to Incorporate the

Total Maximum Daily Load for Pesticides and PCBs in Machado Lake

Proposed for adoption by the California Regional Water Quality Control Board, Los Angeles Region on July 98, 2010

Amendments

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Chapter 7. Total Maximum Daily Loads (TMDLs) Machado Lake Pesticides and PCBs TMDL

This TMDL was adopted by:

The Regional Water Quality Control Board on [insert date].

This TMDL was approved by:

The State Water Resources Control Board on [insert date].

The Office of Administrative Law on [insert date].

The U.S. Environmental Protection Agency on [insert date].

This TMDL is effective on [insert date].

The elements of the TMDL are presented in Table 7-38.1 and the Implementation Plan in Table 7-38.2.

R E V I S E D

Table 7-38.1. Machado Lake Pesticides and PCBs TMDL: Elements

TMDL Element	Regulatory Provisions
Problem Statement	Machado Lake is identified on the 1998, 2002, 2006, and 2008 Federal Clean Water Act Section 303(d) lists of impaired waterbodies due to chlordane, DDT, dieldrin, Chem A, and PCBs in fish tissue.
	Chem A (the abbreviation for 'chemical group A') is a suite of bio-accumulative pesticides that includes chlordane and dieldrin. The 1998 303(d) listing (and subsequent listings) for Chem A was predominately based on fish tissue concentrations of chlordane and dieldrin; there was only minimal detection of other Chem A pollutants in 1983 and 1984. Chlordane and dieldrin have been recently detected in fish tissue, while other Chem A pollutants have not been detected in 25 years. Therefore, this TMDL only addresses the Chem A pollutants (chlordane and dieldrin) that are causing impairment.
	Because of potential harm to human health and the environment, the use of these pollutants has been banned for many years; however, the physiochemical properties of the pollutants cause them to persist in the environment. These pollutants, bound to soil particles, are easily transported with surface runoff to waterbodies. Contaminated sediments accumulate in the receiving waterbodies and aquatic organisms are exposed to the toxic pollutants. Sediment toxicity has been documented at Machado Lake, and it is likely that pesticides and PCBs contribute to the toxic condition of the sediments. Moreover, all of these pollutants biomagnify as they move up the food chain, thereby increasing concentrations in higher trophic-level aquatic organisms and wildlife.
	The exposure of the Machado Lake ecosystem to chlordane, DDT, dieldrin, and PCBs has impaired the aquatic life (WARM, WILD, RARE, WET) and recreation (REC-1, REC-2), including fishing, designated beneficial uses of the lake. This TMDL addresses these impairments.
	Applicable water quality objectives for this TMDL are narrative objectives for Chemical Constituents, Bioaccumulation, Pesticides, and Toxicity in the Basin Plan and the numeric water quality criteria promulgated in 40 CFR section 131.38 (the California Toxics Rule (CTR)).
Numeric Targets	Numeric targets are for pesticides and PCBs in water, sediment, and fish tissue to protect aquatic life, fishing, and other recreational uses in the lake. The CTR criteria for human health (including protection for consumption of organisms) are the numeric targets for the water column. These targets will protect both aquatic life and human health because the CTR human health criteria are more stringent than the aquatic life criteria.

TMDL Element	Regulatory Provisions							
			Ро	llutant		Column (<u>µgug</u> /L)		
			Total PC	CBs)0017		
			4,4' DD	Γ	0.0	00059		
			4,4' DDE	<u> </u>	0.0	00059		
			4,4' DDI)	0.0	00084		
			Chlorda	ne	0.0	00059		
			Dieldrin		0.0	00014		
	Concentra Oceanic tissue nur	ation (⁻ ceanogra neric targe	TEC) phic and ets are b	ets are bas guidelines d Atmosphe ased on the Contaminan	comp eric Adm Office c	oiled by inistration of Environme	the (NOAA).	National The fish
I		Pollu		Sediment (<mark>µgug</mark> /kg weigl	g dry	Fish Tissu (ng/g wet	weight)	
		Total PCE		59.8		3.6	6	
		DDT (all co		4.16		No tai	rget	
		DDE (all co		3.16		No tai	rget	
		DDD (all co		4.88		No tai	_	
		Total DD1		5.28		21.		
		Chlordane Dieldrin	9	3.24		5.6		
Cauraa		Dielarin		1.9		0.4	ю	
Source Analysis	The point sources of pesticides and PCBs into Machado Lake are stormwater and urban runoff discharges from the municipal separate storm sewer system (MS4), California Department of Transportation (Caltrans), and general construction and industrial dischargers. Stormwater and urban runoff discharges to Machado Lake occur through the following subdrainage systems: Wilmington Drain, Project 77 and Project 510. PCBs, DDT, dieldrin, and chlordane are no longer legally sold or used, yet, they remain ubiquitous in the environment, bound to fine-grained particles. When these particles become waterborne, the chemicals are ferried to new locations. The more recent small discharges of pesticides and PCBs to Machado Lake most likely come from the erosion of pollutant-laden sediment further up in the watershed. Urban runoff and rainfall higher in the watershed mobilize the particles, which are then washed into storm drains and channels that discharge to the lake. The major nonpoint source of pesticides and PCBs to Machado Lake is the							

TMDL Element		Regulato	ory Provisions		
	internal lake sediments. The contaminated lake sediments are a reservoir of historically deposited pollutants. The resuspension of these sediments contributes to the fish tissue impairment in the lake. Additionally, the feeding behaviors of fish expose them to contaminated sediments.				
	The estimated contribu smaller than the estima			n point sources is much e sediments.	
Linkage Analysis	A conceptual model links the source loading information to the numeric targets.				
Loading	The chemical properties of pesticides and PCBs result in strong binding to particulate matter; therefore, most of the incoming contaminants from the watershed are bound to suspended sediment particles. When the contaminated suspended sediment settles to the lake bottom, pesticides and PCBs accumulate in the lake sediments. These pollutants are available to migrate to the water column and ultimately to the food web. Through bioturbation and feeding processes the contaminants may be taken up by benthic organisms. Once the sediment-bound PCBs and pesticides contaminate benthic organisms, the contaminants may move out of the lake sediments through each trophic level. Thus, the contaminated lake sediments are an important source. It is expected that if sediments within the lake and those loaded to the lake meet sediment numeric targets, then the fish tissue targets will be met as well. The monitoring program will consist of water, sediment, and fish tissue monitoring to assess this assumption.				
Capacity	The loading capacity is calculated for each pollutant is equal to as the volume of the active layer of sediment in the lake multiplied by the sediment numeric target.				
	Pollutant Loading Cap	acity = Volum	e Active Sediment	x Target Concentration	
	However, in the case that the existing load is less than the loading capacity (dieldrin and PCBs), the loading capacity is set at the existing load. The existing load iswas calculated as the volume of the active layer of sediment in the lake multiplied by the observed pollutant concentration.				
	Existing Pollutant Load = Volume Active Sediment x Pollutant Concentration.				
	The loading capacity for each pollutant is presented as follows: the conversion factors are not included in the table.				
		Pollutant	Loading Capacity (g)		
		Chlordane	1,275		
		Total DDT Dieldrin	2,078 747 519		
		PCBs	14,04923,533		

TMDL Element	Regulatory Provisions			
Waste Load Allocations	Waste load allocations (WLAs) for contaminants associated with suspended sediment are assigned to stormwater dischargers (MS4, Caltrans, general construction and general industrial dischargers) in both wet and dry weather.			
		Responsible Party	Pollutant	WLA for Suspended Sediment- Associated Contaminants ¹ (<u>ugug</u> /kg dry weight)
		MS4 Permittees ¹ ,	Total PCBs	59.8
		Caltrans, General	DDT (all congeners)	4.16
		Construction and	DDE (all congeners)	3.16
		Industrial Stormwater	DDD (all congeners)	4.88
		Permittees, Other	Total DDT	5.28
		Non-stormwater	Chlordane	3.24
		NPDES Permittees	Dieldrin	1.9
		¹ WLAs are applied with a	3-year averaging period	<u>1.</u>
Load	assigne capacity existing The LA where existing	ed to the lake sedimently, including a 10% many load is less than the kess are set to attain the existing loads are less	nts. The LAs are argin of safety. ; to cading capacity, the lake loading capacity than the loading capacity.	es of pesticides and PCBs are set to attain the lake loading nowever, in the case that the LA is set at the existing load. Icity. For PCBs and dieldrin, apacity, the LAs are set at the or these pollutants does not
		Responsible Party	Pollutant	(grams)
		City of Loo Appelor	Chlordane	1,147
		City of Los Angeles, Department of	Total DDT	<u>1,</u> 807
		Recreation and Parks	Dieldrin	<u>467</u> 519
			PCBs	<u>12,644</u> 14,069

¹ Municipal Separate Storm Sewer System (MS4) Permittees <u>includeincluding</u>: Los Angeles County, Los Angeles County Flood Control District, and the Cities of Carson, Lomita, Los Angeles, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills, Rolling Hills Estates, and Torrance.

TMDL Element	Regulatory Provisions					
Margin of Safety	The uncertainties associated with this TMDL are due to:					
	Limited data on the amount of pesticides and PCBs residing within the lake sediments					
	•	Limited data on the amount of pesticides and PCBs entering the lake				
	•		ormation on the Machado Lake	e volume of the active	layer of	
	•	Estimated inf	ormation on the	watershed sediment	deposition rate	
	<u>•</u>			nent density, and sedir		
		values used sediment	to calculate the	load associated with o	<u>deposited</u>	
	employing cons	servative ass	umptions in th	cit margin of safety e TMDL analysis. A he loading capacity fo	Additionally, an	
		Pollutant	Loading Capacity (g)	Loading Capacity with 10 % Margin of Safety		
		Chlordane	1,275	1,147		
		Total DDT	<u>2,078</u> 897	<u>1,870</u> 807		
		Dieldrin	519747 14,049 23,53	467 673 12,644 21,180		
		PCBs	3	12,04421,100		
Seasonal Variations and Critical Conditions	Pesticides and PCBs in fish tissue are a concern in Machado Lake due to long-term loading and bioaccumulation and biomagnification. Wet-weather events may produce extensive sediment redistribution and transport sediments to the lake. This would be considered the critical condition for loading and the CTR-based water column targets are protective of this condition. However, the effects of pesticides and PCBs in sediment and fish tissue are manifested over long time periods. The TMDL is established in a manner that accounts for the longer time periods in which ecological effects may occur.					
Monitoring Plan	Compliance Mo	nitoring				
				and LAs may submit		
				<u>nents (as describe</u>	d below) and	
	implementation	activities for t	JOHN WEAS and	ILAS.		
	-Waste Load A	Allocations				
	compliance wit solids. Sampli	h the WLAs. ng shall be de	Samples will esigned to colle	I conduct monitoring Il be analyzed for to ect sufficient volumes ollutants in the bulk s	otal suspended s of suspended	

TMDL Element	Regulatory Provisions
	 Total Organic Carbon Total PCBs DDT and Derivatives Dieldrin Total Chlordane
	In addition to TMDL constituents, general water chemistry (temperature, dissolved oxygen, pH, and electrical conductivity) and a flow measurement will be required at each sampling event. General chemistry measurements may be taken in the laboratory immediately following sample collection, if auto samplers are used for sample collection or if weather conditions are unsuitable for field measurements.
	The monitoring shall be conducted in two phases at appropriate locations in the subwatershed.
	Phase 1
	Phase 1 monitoring will be conducted for a twothree-year period. Samples will be collected during threetwo wet weather events each year. The first large storm event of the season shall be included as one of the monitoring events.
	Phase 2
	Phase 2 monitoring will commence once Phase 1 monitoring has been completed. Samples will be collected during one wet weather event every other year.
	Monitoring shall be conducted under a technically appropriate Monitoring and Reporting Plan (MRP) and Quality Assurance Project Plan (QAPP). The MRP shall include a requirement that the responsible parties report compliance and non-compliance with waste load allocations as part of annual (or biennial during Phase 2 monitoring) reports submitted to the Regional Board. The QAPP shall include protocols for sample collection, standard analytical procedures, and laboratory certification. All samples shall be collected in accordance with SWAMP protocols. Phase 1 sampling shall begin within 60 days of Executive Officer approval of the MRP and QAPP.
	The Regional Board's Board-Executive Officer may reduce, increase, or modify Phase 2these monitoring and reporting requirements, as necessary, based on the results of Phase 1 monitoring. Currently, several of the constituents of concern have numeric targets that are lower than the readily available detection limits. As analytical methods and detection limits continue to improve (i.e., development of lower detection limits) and become more environmentally relevant, responsible parties shall incorporate new method detection limits in the MRP and QAPP.
	The Regional Board may reconsider the TMDL WLAs based on the results of

TMDL Element	Regulatory Provisions
	Phase 1 and 2 monitoring, if necessary.
	Compliance Monitoring – Load Allocations
	Monitoring to determine compliance with the TMDL load allocations and attainment of the fish tissue targets shall be conducted as part of the Lake Water Quality Management Plan (LWQMP). This monitoring shall commence following the remediation of lake sediments as presented in the LWQMP.
	Lake sediment samples will be collected <u>every three yearsannually</u> from three locations in the lake (northern end, mid point, southern end). All samples shall be collected in accordance with SWAMP protocols. Sediment samples will be analyzed for:
	 Total Organic Carbon Total PCBs DDT and Derivatives Dieldrin Total Chlordane
	Fish shall be collected for tissue analysis every 3 years. Fish tissue samples will be analyzed for:
	 Total PCBs DDT and Derivatives Total Chlordane Dieldrin
	The fish collection and analysis shall be conducted in accordance with the U.S. EPA Guidance for Assessing Chemical Contaminant Data for Use in Fish Advisories: Volume 1 Fish Sampling and Analysis (EPA 823-B-00-0007) or updates.
	In addition to TMDL constituents, general water chemistry (temperature, dissolved oxygen, pH, and electrical conductivity) will be required at each sampling event. The Executive Officer may require additional monitoring may be required depending on which implementation alternatives are pursued by the responsible parties.
	Currently, several of the constituents of concern have numeric targets that are lower than the readily available detection limits. As analytical methods and detection limits continue to improve (i.e., development of lower detection limits) and become more environmentally relevant, responsible parties shall incorporate new method detection limits in the MRP and QAPP.
	Wilmington Drain Monitoring

TMDL Element	Regulatory Provisions
	The Los Angeles County Flood Control District shall monitor Wilmington Drain to demonstrate that Wilmington Drain is not re-contaminating Machado Lake. Monitoring shall include bed sediment sampling and visual inspection of channel maintenance and operation of best management practices (BMPs). Monitoring shall be required by Regional Boardan Executive Officer order or a conditional Water Quality Certification under section 401 of the Clean Water Act. This monitoring shall be initiated at the same time as all other required WLA monitoring.
Implementation Plan	Compliance with the TMDL is based on the assigned WLAs and LAs. Compliance with this TMDL will require the implementation of NPDES permit limitations for urban runoff and stormwater discharges and cleanup of contaminated lake sediments. Table 7-38.2 contains a schedule for responsible parties to implement BMPs and a LWQMP to comply with the TMDL.
	I. Implementation of WLAs The TMDL WLAs shall be incorporated into the MS4, Caltrans, and general construction and industrial stormwater NPDES permits and any other non-stormwater NPDES permits.
	Permitted stormwater dischargers can implement a variety of implementation strategies to meet the required WLAs, such as non-structural and structural BMPs, and/or diversion and treatment to reduce sediment transport from the watershed to the lake.
	II. Implementation of LAs
	Load allocations shall be implemented through the following:
	(1) Memorandum of Agreement (MOA), or
	(2) Cleanup and Abatement Order or Other Regulatory Order.
	The responsible parties for the load allocations shall be allowed one year from the effective date of this TMDL to enter into a Memorandum of Agreement (MOA) with the Regional Board, Executive Officer, detailing the voluntary efforts that will be undertaken to attain the load allocations. The MOA shall include development of a LWQMP. The MOA shall comply with the Water Quality Control Policy for Addressing Impaired Waters: Regulatory Structure and Options ("Policy"), including part II, section 2cii_ and related provisions, and shall be consistent with the requirements of this TMDL. If the MOA is timely adopted, and so long as it is implemented, the program described in the MOA shall be deemed "certified", pursuant to the Policy, subject to the conditions of section 2, a of the Policy. The MOA must be approved by the Executive
	section 2.—e. of the Policy. The MOA must be approved by the Executive Officer, and may be amended with Executive Officer approval, as necessary. If an MOA is not established with responsible parties within one year or if responsible parties do not comply with the terms of the MOA, a cleanup and abatement order pursuant to California Water Code section 13304 or another

TMDL Element	Regulatory Provisions
	appropriate regulatory order shall be issued to implement the load allocations.
	Furthermore, the implementation of the MOA must result in attainment of the TMDL load allocations. If the MOA and LWQMP are not implemented or otherwise do not result in attainment of load allocations, the certification shall be revoked, the MOA rescinded, and the load allocations shall be implemented through a cleanup and abatement order or other order as described above. Implementation of the MOA shall be reviewed annually by the Executive Officer as part of the MRP annual reports.
	Responsible parties entering into an MOA with the Regional Board shall submit and implement a LWQMP. The LWQMP must be approved by the Executive Officer and may be amended by Executive Officer approval, as necessary. The LWQMP shall include an MRP to address appropriate monitoring and a clear timeline for the implementation of measures that will achieve the lake sediment LAs. The LWQMP shall include annual reporting requirements. In addition to the LWQMP and MRP, a QAPP shall also be submitted to the Regional Board for approval by the Executive Officer to ensure data quality.
	One and one half years from the effective date of the TMDL, the responsible parties entering into the MOA shall submit a letter of intent, LWQMP, MRP, and QAPP for approval by the Executive Officer in order to be in compliance with the MOA adopted as part of this TMDL. If there is already an MOA, LWQMP, MRP, and QAPP in place to implement the Machado Lake Nutrient TMDL, these documents may be amended to implement and attain the load allocations of this TMDL.
	The Executive Officer may require a revised assessment under the MOA and LWQMP:
	(a) To prevent pesticides and PCBs from accumulating or recycling in the lake in deleterious amounts that impair water quality and/or adversely affect beneficial uses;(b) To reflect the results of special studies.
	III. Cleanup and Abatement Order or Other Regulatory Order:
	Alternatively, responsible parties may propose or the Regional Board may impose an alternative program that would be implemented through a cleanup and abatement order, or any other appropriate order or orders, provided the program is consistent with the allocations and schedule described in Table 7-38.2.
	IV. Compliance with Allocations and Attainment of Numeric Targets
	TMDL effectiveness will be determined through water, sediment, and fish tissue monitoring and comparison with the TMDL waste load and load allocations and numeric targets. The compliance point for the stormwater WLA is at the storm

TMDL Element	Regulatory Provisions
	drain outfall of the permittee's drainage area. Alternatively, if stormwater dischargers select a coordinated compliance option, the compliance point for the stormwater WLA may be at the-storm drain outfalls which suitably represent the combined discharge of cooperating parties discharging to Machado Lake. (i.e., Wilmington Drain, Project 77 storm drain, and Project 510 storm drain) . Depending on potential BMPs implemented, alternative stormwater compliance points may be proposed by responsible parties subject to approval by the Regional Board Executive Officer. The compliance point for responsible parties receiving a load allocation is in Machado Lake.
	Stormwater dischargers may coordinate compliance with the TMDL. Compliance with the TMDL may be based on a coordinated MRP and implementation plan. Dischargers interested in coordinated compliance shall submit a coordinated MRP and implementation plan that identifies stormwater BMPs and monitoring to be implemented by the responsible parties.
	After lake remediation activities are complete and LAs are attained, if Machado Lake is recontaminated as a result of continued polluted discharge from the surrounding watershed, the WLA compliance monitoring data will be used, along with other available information, to assess the relative contribution of watershed dischargers and determine their responsibility for secondary lake remediation activities. If a significant amount of contaminated sediment is transported to Machado Lake from the surrounding watershed after lake remediation actives are completed, but before monitoring is conducted to confirm attainment of LAs, Regional Board staff shall consider all confounding information related to watershed discharges and lake conditions when assessing responsibility for secondary lake remediation activities.
	V. Application of Allocations to Responsible Parties Responsible parties to attain WLAs for this TMDL include but are not limited to: Caltrans General Stormwater Permit Enrollees MS4 Permittees including: Los Angeles County Los Angeles County City of Carson City of Lomita City of Los Angeles City of Palos Verdes Estates City of Rancho Palos Verdes City of Redondo Beach City of Rolling Hills City of Rolling Hills Estates City of Torrance Other Non-stormwater Permittees
	The City of Los Angeles is the responsible jurisdiction to implement the assigned Load Allocations for this TMDL.

Table 7-38.2. Machado Lake Pesticides and PCBs TMDL: Implementation Schedule

Task Number	Task	Responsible Party	Deadline			
	Load Allocation Requirements					
1	Enter into a Memorandum of Agreement (MOA) with the Regional Board to implement the load allocations. If there is already an MOA in place to implement the Machado Lake Nutrient TMDL, the current MOA may be amended to address the requirements of this TMDL.	City of Los Angeles, Department of Recreation and Parks	1 year from effective date of TMDL			
2	Begin development of a Cleanup and Abatement Order or other regulatory order to implement the load allocations if an MOA is not established with responsible parties.	Regional Board	1 year from effective date of TMDL			
3	Issue a Cleanup and Abatement Order or other regulatory order if an MOA is not established with responsible parties. The Cleanup and Abatement Order or other regulatory order shall reflect the TMDL Implementation Schedule.	Regional Board	1.5 years from effective date of TMDL			
4	Submit a LWQMP ² , MRP ³ Plan, and QAPP ⁴ for approval by the Executive Officer to comply with the MOA. If there is already a LWQMP, MRP Plan, and QAPP in place to implement the Machado Lake Nutrient TMDL, these documents may be amended to address the requirements of this TMDL.	City of Los Angeles, Department of Recreation and Parks	1.5 years from the effective date of the TMDL			
5	Begin implementation of the LWQMP.	City of Los Angeles. Department of Recreation and Parks	60 days from date of LWQMP approval			
6	Achieve LAs for Pesticides and PCBs and demonstrate attainment of numeric targets.	City of Los Angeles, Department of Recreation and Parks	September 30, 20192018			
	Waste Load Allocation Requirements					
7	Submit a MRP and QAPP for Executive Officer approval ⁶ .	Caltrans, MS4 Permittees ⁵ , <u>General</u> <u>Construction and</u>	6 months from effective date of TMDL <u>or</u>			

² Lake Water Quality Management Plan ³ Monitoring Reporting Program ⁴ Quality Assurance Project Plan

⁵ Municipal Separate Storm Sewer System (MS4) Permittees <u>include</u>including: Los Angeles County, Los Angeles County Flood Control District, and the Cities of Carson, Lomita, Los Angeles, Palos Verdes Estates, Rancho Palos Verdes, Redondo Beach, Rolling Hills, Rolling Hills Estates, and Torrance.

Task Number	Task	Responsible Party	Deadline
		Industrial Stormwater Permittees	September 11, 2011 whichever date is later
8	Begin monitoring as outlined in the approved MRP and QAPP.	Caltrans, MS4 Permittees, General Construction and Industrial Stormwater Permittees	60 days from date of approval
9	ConductBased on the results of Phase 1 Monitoring, submit an implementation plan to attain WLAs or document that WLAs are attained.	Caltrans, MS4 Permittees, General Construction and Industrial Stormwater Permittees	2 year monitoring period 6 months from completion of Phase 1 Monitoring (Submit Draft Plan) 1 year from completion of Phase 1 Monitoring (Submit Final Plan)
10	Based on the results of Phase 1 Monitoring, submit an Begin implementation planactions to attain WLAs or document that WLAs are attained., as necessary.	Caltrans, MS4 Permittees, General Construction and Industrial Stormwater Permittees	6 months from completion of Phase 1 Monitoring (Submit Draft Plan) 1 year from completion of Phase 1 Monitoring (Submit Final Plan)60 days from date of plan approval
11	Begin implementation actions to attain WLAs, as necessary. Achieve WLAs for Pesticides and PCBs and demonstrate attainment of numeric targets.	Caltrans, MS4 Permittees, General Construction and Industrial Stormwater Permittees	60 days from date of plan approval September 30, 2018
12	Achieve WLAs for Pesticides and PCBs and demonstrate attainment of numeric targets.	Caltrans, MS4 Permittees, General Construction and Industrial Stormwater Permittees	<u>September 30,</u> <u>2019</u>

⁶The deadline for Responsible Parties assigned both WLAs and LAs to submit one document to address both WLA and LA monitoring requirements and implementation activities shall be 1.5 years from the effective date.