

#### By Registered Mail

Director,

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10 Oct 2023

**Dear Sirs** 

Agreement No EP-563/2018
The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development
IEC Monthly Audit Report No. 36

In accordance with the Clause 2.1 of EP-563/2018 for The Development of AFCD Animal Management and Animal Welfare Building, we are pleased to submit herewith one hard copy and one softcopy in HTML and PDF version of the Monthly Audit Report No.36 (1 – 30 Sep 2023) for your attention.

Should you have any queries, please do not hesitate to contact the undersigned.

Yours faithfully

Franki Chiu

Independent Environmental Checker

Enc

one hard copy without CD – Ms Amy Tan, ArchSD

One hard copy without CD - Mr Matthew Tang, EPD

One hard copy without CD - Ms Wendy Sin, SKA

### **Architectural Services Department**

The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development

Monthly Audit Report No. 36 (1-30 Sep 2023)

This report takes into account the particular instructions and requirements of our client. It is not intended for and should not be relied upon by any third party and no responsibility is undertaken to any third party.

Job number 271753

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### **Contents**

			Page
1	INTR	ODUCTION	1
	1.1	Background	1
	1.2	Scope of the Assignment	2
2	Conci	se Overview of Assignment Period	3
	2.1	Construction phase environmental mitigation implementa status	tion 3
	2.2	Summary of valid Environmental Licenses, Permits and Notifications	6
	2.3	Environmental Complaint, Summons and Prosecution	6
	2.4	Tentative Construction Activities in the Coming Two Mo	nths 7
3	Major	Accomplishment	7
	3.1	Deliverables	7
	3.2	Meetings	7
	3.3	Summary of Work Done	8
	3.4	IEC Site Audit	8

### **Appendices**

**Appendix 1** IEC Site Audit Checklist

#### 1 INTRODUCTION

### 1.1 Background

The Environmental Permit (EP) (i.e. EP-563/2018) for Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development (hereinafter referred to as the Project) was issued on 10th August 2018. After the issuance of the EP, AFCD proposed refinements to the design of the Project which are referenced in the Pre-Construction Audit Report.

In accordance with Clause 2.1 of the EP, the Permit Holder shall, no later than 3 months before the commencement of construction of the Project or otherwise, deposit with the Director of Environmental Protection (DEP) of a Pre-construction Audit Report to confirm the design measures stipulated in the Project Profile (PP) (i.e. PP-569/2018), including the location of the entrance and exits, the open-air exercise areas for animals, and the air exhausts of the ventilation system of the animal keeping areas have been fully incorporated into the relevant design drawings. The said Pre-construction Audit Report was submitted to EPD and approved on 19 Mar 2020.

Arup was commissioned by ArchSD to provide Independent Environmental Checker services. The scope of the project is as follows:

(1) An animal management and animal welfare building complex, which mainly covers a quarantine centre, a veterinary testing laboratory and offices.

**Figure 1** shows the Project location plan in the environmental permit EP-563/2018. **Figure 2** shows the management structure for environmental works of the Project.

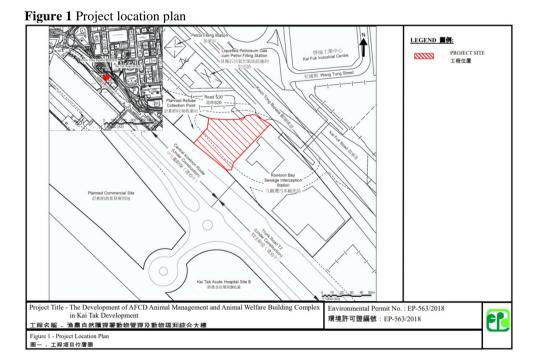
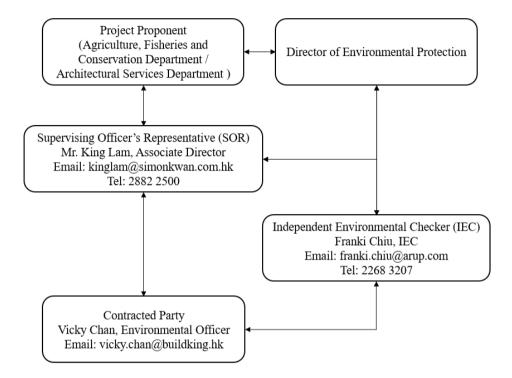


Figure 2: Management structure

#### Animal Management And Animal Welfare Building Complex Project Organization Environmental Works



### 1.2 Scope of the Assignment

The objective of this Project is to verify that the construction phase environmental mitigation measures stipulated in the Project Profile (Register No.: PP-569/2018) are fully implemented, and to provide all professional services of necessary technical support, professional advices, studies, coordination, verification of Contractor's submissions, and preparation of submission to EPD, etc. to ensure compliance with the EP in accordance with the PP and the study brief as follows:

- (a) Coordinate with Simon Kwan & Associates Ltd (SKA), Allied Environmental Consultants Limited (AEC) and the Contractor to check and ensure compliance with the PP and EP;
- (b) Coordinate with SKA, AEC and the Contractor and prepare all the submissions to EPD as required under EP-563/2018;
- (c) Submit Audit Reports to EPD as required under EP-563/2018;
- (d) Fulfil all duties as IEC as required by EPD under the EIAO, including, but not limited to, the verification of all relevant reports prepared by the Contractor in the course of construction; and
- (e) Attend regular & ad-hoc project meetings and environmental meetings when required.

### 2 Concise Overview of Assignment Period

The contract commenced on the 25<sup>th</sup> September 2020 and the site activities carried out by the Contractor in this reporting month include:

- Setting Out Works
- · Concreting Works
- Rebar Fixing Works
- Formwork Erection Works
- Plumbing Works
- Gas Installation Works
- Miscellaneous Works
- Scaffolding Works
- Lift Installation
- · Plastering Works
- Internal Finishers Works
- Installation of Glass Wall Works
- E&M Installation Works
- Painting Works
- Tower Crane Removal Works
- Roof Crane Installation Works

The environmental performance was considered acceptable during the assignment period from 1<sup>st</sup> Sep 2023 to 30<sup>th</sup> Sep 2023.

# 2.1 Construction phase environmental mitigation implementation status

The environmental mitigating measures to be implemented according to the approved Project Profile during the construction phase is subject to the site activities programme. The status in this reporting month is summarised in **Table 2.1** 

**Table 2.1:** Implementation status of construction phase environmental protection measures

Table 2.1: Implementation status of construction phase environmental protection measures							
	Mitigation Measures	Status					
	Demolition activities should be sprayed with water or dust suppression chemical immediately prior to, during and immediately after the activities to maintain the entire surface wet.	Implemented					
	Dusty excavated material should be entirely covered by impervious sheeting or sprayed with water to maintain the entire surface wet.	Implemented					
	Dusty excavated material should be removed, backfilled or reinstated where practicable within 24 hours of the excavation or unloading.	Implemented					
	Hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing during any open excavation and reinstatement works. Good practice should also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;	Implemented					
Air	Dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads or streets.	Implemented					
A	Dump truck loaded with dusty material should be covered entirely by impervious sheeting	Implemented					
	Vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point.	Implemented					
	The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcore.	Implemented					
	Road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials.	Implemented					
	Effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building; a canopy should be provided from the first-floor level up to the highest level of the scaffolding as an alternative.	Implemented					
	Skip hoist for material transport should be enclosed entirely by impervious sheeting.	Implemented					
	Use of Powered Mechanical Equipment (PME), parallel operation and unnecessary idling in the open areas of the Project site should be limited to a minimum.	Implemented					
	Movable and temporary noise barrier and enclosure should be provided for any operating PME.	Implemented					
Noise	Noisy construction process should be scheduled outside school examination periods.	To be implemented, currently outside school examination periods.					
	Use of quiet plant associated with the construction works as prescribed in British Standard "Noise Control on Construction and Open Sites, BS5228: Part 1: 2009"	Implemented					
	Full compliance of "Recommended Pollution Control Clauses" under the Construction Contract.	Implemented					

	Mitigation Measures	Status		
Water	Full compliance of Pro PECC Note 1/94 "Construction Site Drainage"	Implemented		
W	Surface run-off and sewage effluent should be discharged into sewerage system	Implemented in surface run- off, chemical toilets are adopted.		
	General housekeeping should be practiced regularly.	Implemented		
	C&D materials should be reused on-site	Implemented		
	Trip ticket system should be implemented and available for checking in accordance with the DEVB TCW No. 6/2010 "Trip Ticket System for Disposal of Construction and Demolition Material."	Implemented		
	Inert C&D waste and non-inert C&D waste should be properly sorted and disposed of at appropriate facilities in accordance with the Waste Disposal (Charges for Disposal of Construction Waste Regulation (Cap. 354N).	Implemented		
gement	The Contractor is required to register with the EPD as a chemical waste producer and to follow the guidelines stated in the "Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes"	Implemented		
Waste Management	Good quality containers compatible with the chemical wastes should be used, and incompatible chemicals should be stored separately.	Implemented		
W	Appropriate labels should be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.	Implemented		
	Chemical waste should be collected by the licensed chemical waste collector for transportation and disposal at the approved Chemical Waste Treatment Centre or	To be implemented, no chemical waste was transferred to a disposal		
	other licensed treatment facilities, according to the Waste Disposal (Chemical Waste) (General) Regulation (Cap. 354C).	facility according to Contractor's progress report for this reporting month		
	General refuse should be temporarily stored in enclosed bins or compaction units and removed from the site on a regular basis.	Implemented		
	Licensed waste collectors should be employed to remove refuse from the site for disposal.	N/A (Contractor will conduct general refuse removal.)		
	A dedicated access route should be used for construction vehicles.	Implemented		
Life hazard	Any lifting operation over the site boundary should be strictly minimised.	Implemented		
	Any lifting (if any) should be assessed, controlled and closely supervised by Contractors and qualified operation staff.	Implemented		
	Ignition sources should be confined within the site.	Implemented		
	Work permit system for hot work activities within the Project site should be specified in the contractor's method statement	Implemented		

	Mitigation Measures	Status
ape	Temporary stockpile of excavated and building materials should be covered.	Implemented
andscape	Hoardings with outlook matching with surrounding landscape should be erected.	Implemented
ı	Any night-time glaring should be minimised.	Implemented

# 2.2 Summary of valid Environmental Licenses, Permits and Notifications

Summary of valid licenses, permits and/or notifications on environmental protection for the Project as extracted from the Contractor's progress report for this reporting month is given in **Table 2.2**.

Table 2.2: Summary of valid licenses, permits and/or notifications on environmental protection

License / Notification	Ref. / Account No. / Waste Producer No.	Received Date	Expiry Date	
Notification Pursuant to Section 3(1) of the Air Pollution Control (Construction Dust) Regulation	Ref. No. 459968	14 Sep 2020	Construction Period	
Wastewater Discharge License	WT00037298-2020	28 Jan 2021	31 Jan 2026	
Construction Waste Disposal Charging Scheme	7038488	28 Sep 2020	Construction Period	
Chemical Waste Producer License	Waste Producer No. 8334-286-B2491-07	23 Oct 2020	Construction Period	
Construction Noise Domnit for	PP - RE0034-20	28 Sep 2020	13 Apr 2021	
Construction Noise Permit for Percussive Piling	PP – RE0005-21	05 Mar 2021	13 Oct 2021	
recussive rining	PP – RE0030-21	23 Sep 2021	14 Apr 2022	
	GW - RE0835-20	05 Oct 2020	20 Mar 2021	
	GW – RE0144-21	19 Feb 2021	20 Sep 2021	
	GW - RE0843-21	06 Sep 2021	20 Mar 2022	
Construction Noise Permit for	GW – RE0181-22	04 Mar 2021	20 Sep 2022	
General Construction Work	GW - RE0835-22	19 Aug 2022	20 Mar 2023	
	GW – RE1106-22	11 Oct 2022	13 Apr 2023	
	GW - RE0193-23	03 Mar 2023	07 Sep 2023	
	GW - RE1045-23	01 Sep 2023	07 Mar 2024	

# 2.3 Environmental Complaint, Summons and Prosecution

Summary of environmental complaint, summons and prosecution for the Project as extracted from the Contractor's progress report for this reporting month is given in **Table 2.3**.

Table 2.3 Summary of environmental complaint, summons and prosecution

Description	During this reporting month	Cumulative total
Public Complaint on environmental issues: (Including light nuisance complaint)	0	0
Offences spotted by EPD during inspection	0	0
Abatement Notices issued by EPD	0	0
Notification referred by EPD	0	0

## 2.4 Tentative Construction Activities in the Coming Two Months

Summary of forthcoming construction activities in the next two months and their corresponding potential environmental impacts and nuisance as extracted from the Contractor's progress report for this reporting month is given in **Table 2.4**.

**Table 2.4** Construction activities and potential environmental impacts in the coming 2 months

Construction Activities	Environmental Impacts & Nuisance
<ul> <li>Setting Out Works</li> <li>Concreting Works</li> <li>Rebar Fixing Works</li> <li>Formwork Erection Works</li> <li>Plumbing Works</li> <li>Gas Installation Works</li> <li>Miscellaneous Works</li> <li>Scaffolding Works</li> <li>Refuse Chute Erection Works</li> <li>Placing Boom Erection Works</li> <li>E&amp;M Installation Works</li> <li>Block Wall Installation Works</li> <li>Painting Works</li> <li>Internal Finishes Works</li> <li>Plastering Works</li> <li>Lift Installation</li> </ul>	<ul> <li>Dust pollution</li> <li>Noise pollution</li> <li>Waste generation</li> <li>Water pollution</li> </ul>

### 3 Major Accomplishment

#### 3.1 Deliverables

Deliverables reviewed or prepared in the reporting month are summarised in **Table 3.1**.

**Table 3.1** Deliverables

Description	Status
Monthly Audit Report No. 35 – Aug 2023	Submitted on (8 Sep 2023)

Planned deliverables to be reviewed or prepared in the coming month are summarised in **Table 3.2** 

Table 3.2 Planned deliverables

Description	Expected Submission Date	Status / Revised Submission Date
Monthly Audit Report No. 36 – Sep 2023	10 Oct 2023	On schedule

### 3.2 Meetings

No meeting was attended in the reporting month.

### 3.3 Summary of Work Done

Upon commencement of the Assignment, accumulated number of IEC monthly audit report is summarised in **Table 3.3**.

Table 3.3 Summary of work done

Work	Number
IEC Pre-construction Audit Report	1
IEC Monthly Audit Report	36

### 3.4 IEC Site Audit

IEC site audit was conducted on 27<sup>th</sup> Sep 2023 together with the Contractor's representative. There were no major site defects observed in the reporting month. The IEC site audit checklist is given in Appendix 1.

### **Appendix 1**

IEC Site Audit Checklist





	Ref. No. Project	271753-00 AFCD AMA	WBC		_	IEC	0	we An	ıp & Pa	ortners	Hone	ı Kona	ı l td	
		74 00 7400				Client		FCD	pure	11013	TIONE	, rong	, Liu.	
	Contract No.					Contractor	_		ng Hole	dings l	_td.			
	Inspected By	IEC's Rep. :	Hilt	on Tai	<u>~</u>									
		Cilent's Rep	). ;		_	Inspection D	ate _	2	7-	09	-2	02	3	
		Architect's F				Time Period	_	(	0	00	_	12	(OD)	
		Contractor's	Rep. ;		_				•	-				
	Part I	Weather												
	Condition	Sunny	∏ Fine	Overcast	☐ Storm	Rain	Drizz	zle	П	Hazy				
	Humidity [	High	Moderate	Low		****	_		• • • •	•			31	
	Wind [	Calm	Light	☐ Breeze	Strong		T	emper	ature			_	<u> </u>	_°C
No.	Part II	Water Quality	and Drainag				N.	/A <b>N</b> /C	) Yes	Rdr	Obs	N/C	Photo	s / Remarks
1	ls drainage sys	stem adequat	te?				ľ,	$\checkmark$						
2	Is drainage sys	stem well ma	intained?				5	<b>₹</b> Æ			_			
3	Is drainage sys						Ę	7 🗔						
4	Are there dyke								$\square$	<b>-</b>				
5	Are there pering runoff from out:				•				¥					
6	Are sediment of							-/4		_				
7	Are there temp					•	L .	<b>/</b> ;		_	_			
	watercourse?	,			h h., a h., a.c.			2 _	ш	ш.	ш	ш		
8 -	Are these temp	orary ditches	s with silt rete	ention and ren	noval facili	ties?	E	/,0						
9a	Do permanent	drainage cha	innels have:		ation basir	1?	Ę							
9b				traps and			N	<b>Z</b> 🗆						
10		ohitated from entering the river channel?												
11		from tunnels or surface runoff collected and discharged												
12		mentation tanks for settling runoff prior to disposal?												
13a		entation tanks: constructed of pre-formed individual cells?												
13b		with adequate capacity?												
13c				silt and sedime			E		□Z/					
14		ralisation tanks for concrete batching/mixing discharge?				ذ	Z/ 🗆							
15 16		e diverted to and treated in neutralisation tanks?												
17	tanks before di	disposal?												
18	Are there oil int	•			2		5	-, -						
19	Is there any by					eavy rain?	4			•				
20	Are vehicles ar		•			,	}							
	leaving the site	?					-		<b>,</b>	_ '	_	_		
21	Is a wheel was			•				: , 🗹						
22a	Is the wheel wa	ashing bay wi	· ·	ate design?			1							
22b 22c				ate settling & re			<u> </u>	1/2						
22d				access road le	_		2							
22u 22e				road sufficient wash bay?	y Dackilli t	Jwaiu	D							
23	Is exposed ear	th stabilized a			rks?			<b>/</b> .m						
24	Are exposed sl					s)?	, i	<i>.</i>						
25		piles covered during heavy rain?				<u>.</u>								
26	Are manholes	covered and sealed?												
27		roads protected by crushed stones or gravels?												
28		nected to foul sewer or chemical toilets provided?												
29 30	Are debris and					y?			□//					
30	is wastewater o	discharge licence available for inspection?												



### The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development Independent Environmental Checker Environmental Site Inspection Checklist

No.	Part III Air Quality	N/A N/O Yes Rdr Obs N/C Photos / Remarks
1	Are vehicles in the site travelling within speed limit of 10 km/h?	
2	Are site vehicle movement confined to designated haul roads?	
3	Is the public road around the site entrance kept clean and free from dust?	
4	Are areas of site with regular traffic movement have hard surface?	
5	Are the haul roads watered regularly to avoid dust disturbance?	
6	Are unpaved areas watered regularly to avoid dust disturbance?	
7	Does the water spraying truck work effectively?	
8	Is working area of excavation or earth moving operation sprayed with	
	water to maintain the entire surface wet?	
9	Are the dusty materials sprayed with water during transfer operation?	
10	Do the site vehicles use the wheel wash at the site exits?	
11	Does the wheel wash work effectively?	
12	Are hoarding not less than 2.4m tall provided beside roads or areas with	
13	public access and in good condition?  Are incombustible screens not less than 1.8m tall provided in the public area	
13	affected by exhaust fumes or smoke emission?	
14	Is dark smoke emission avoided?	
15	Are dusty materials properly covered?	
16	Are the bags of cement (more than 20) covered entirely?	
17	Are the excavated materials dropped at minimum practical height?	
18	Are conveyor belts fitted with windboards, transfer points and hoppers	
	enclosed?	-, · <u> </u>
19	Are bulk fine grained materials stored in closed silos fitted with high level	
	alarm indicator?	/.
20	Are air vents on cements silos fitted with fabric filters?	
21	Are weigh hoppers vented to suitable filters?	
22	Are there enclosures around the main dust-generating activities?	
23	Are completed earthworks sealed and hydroseeded and planted as soon	
	as practicable?	/
24 25	Is open burning avoided?  Are vehicles and equipment switched off while not in use?	
25 26	Are all trucks loaded to a level within the side and tail boards?	
27	Are materials transported by dump trucks with mechanical cover?	
28	Do the truck covers work effectively?	
29	Does ULSD used in the construction activities?	
30	Observable dust sources Wind erosion	✓ ¥ehirle/equipment movements
	Loading/unloading of materials	Jones Construction activities
		7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
No.	Part IV Construction Noise Impact	N/A N/O Yes, Rdr Obs N/C Photos / Remarks
1a	Are the construction works scheduled to minimise airborne noise nuisance?	
1b	groundborne noise nuisance?	
2a	Are the works or equipment sited to minimise airbrone noise nuisance?	
2b	groundbrone noise nuisance?	
3	Are all plant and equipment well maintained and in good operating condition?	
4	Are idling equipment throttled down or turned off?	
5	Are powered mechanical equipment covered or shielded by appropriate	
	acoustic materials?	/.
6	Are silenced equipment used where practicable?	
7	Are noise enclosure, noise barrier, or portable noise barrier used	
•	where necessary?	
8	Do hand-held breakers (larger than or equal to 10kg) have valid noise labels?	
9 10	Do Quality Powered Mechanical Equipments (QPME) have valid noise labels?  Do air compressors have valid noise labels?	
10	Do air compressors nave valid noise labels?  Do compressors operate with doors closed?	
12	Are Construction Noise Permits available for inspection?	
13	Major noise source(s)	Construction activities inside of site
	Construction activities outside of site	Others

### The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development Independent Environmental Checker Environmental Site Inspection Checklist



	Part V Waste Management and Contamination	NA NO V Bd. Ob. NO	51
No. 1a	Part V Waste Management and Contamination General refuse: Is accumulation avoided?	N/A N/O Yes Rdr Obs N/C	Photos / Remarks
1b	Is receptacles (e.g. rubbish bins) available?		
1c	, , , , ,		
2a	Is there regular and proper disposal?  Construction waste: Is there avoidance or minimisation of construction		
24	waste generation (e.g. use of steel formwork)?		
2b	Is there on site segregation as far as practicable		
	for reuse and recycle?		
2c	Is construction waste reused where practicable?		
2d	Is construction waste disposed at public dumping		
	area or public landfill?		
2e	Are trip tickets available for inspection?		
За	Chemical waste/waste oil: Is there designated storage area?		
3b	Is chemical waste/waste oil stored properly?		
3с	Is there proper disposal?		
3d	Are trip tickets available for inspection?		
Зе	Is chemical waste license available for		
	inspection?		
4a	Excavated material: Does excavated material appear uncontaminated		
	(colour, odour)?	/ .	
4b	If contamination is suspected, is appropriate procedure		
	followed?		
4c	Are trip tickets available for inspection?		
5a	Chemical/fuel: Is chemical/fuel stored in bunded area?		
5b	Is bund capacity adequate (>110% of the largest tank)?		
5c	Are storage areas provided with locks and located on sealed area?		
6	Are relevant license/permit for disposal of construction waste or excavated		
	materials available for inspection?	, , , , , , , , , , , , , , , , , , , ,	
7	Is foam, oil, grease or other objectionable matters in water of nearby drains or sewer avoided?		
No.	Part VII Others	N/A N/O Yes Rdr Obs N/C	
1	Is a copy of the relevant permits/licences/registrations displayed		
	on the Project site at all vehicular site entrances/exits or at a convenient location for public information all times?		

Part VIII Follow-up for the Pervious Site Audit

### The Development of AFCD Animal Management and Animal Welfare Building Complex in Kai Tak Development Independent Environmental Checker Environmental Site Inspection Checklist

Part IX

RIV: NIL

06s : NZC

Part X Signatures

(Name: Ms.W.S.(Max)