#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• q5 Û €

*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ L Ç+`"d YAîAÑ ØB 9L€ œ (

2021 ¤ 2 8

1

22

118°14′06″

36°56′52″

3×130t/h +2×B12MW

26993.80 4263.10

2013 12 2017 10

47

5.01hm^2 4.51hm^2

0.50hm^2

1.60 m^3 0.35 m^3

2

3

4

3

1

6.28hm² 4.51hm² 0.50hm²

1.00hm² 0.27hm²

3-1 hm²

	hm²		
	4.51	0.20	4.71
	0.50	0.02	0.52
	1.00	0.05	1.05

1

6.01hm^2

5.51hm^2 0.50hm^2 3-3

3-3

	hm^2		hm^2
	4.51	/	4.51
	/	0.50	0.50
	1.00	/	1.00
	5.51	0.50	6.01

2

5.01hm^2

3-4

	hm^2		hm^2
	4.51	/	4.51
	/	0.50	0.50
	/		

5

1

5.01hm^2

4.51hm^2 0.50hm^2

2

5.01hm^2

4.51hm^2 0.50hm^2

3

2017 10

50m^2

6-2

hm^2	hm^2	hm^2	%

$$\% = \frac{\qquad}{\qquad} \times 100\%$$

0.67hm^2 4.51hm^2 14.9%

6-4

6-4

	hm^2	hm^2	%
	4.51	0.67	14.9
	4.51	0.67	14.9

7

1

GB50434-2008

95%

86% 1.0 95% 96%

14.9% 21%

14.9%

2

99% 99% 1.0 99%

99% 14.9%

3

7-1

7-1

%	95	99	
%	86	99	
	1.0	1.0	
%	95	99	
%	96	99	
%	14.9	14.9	

1

150m 1480m

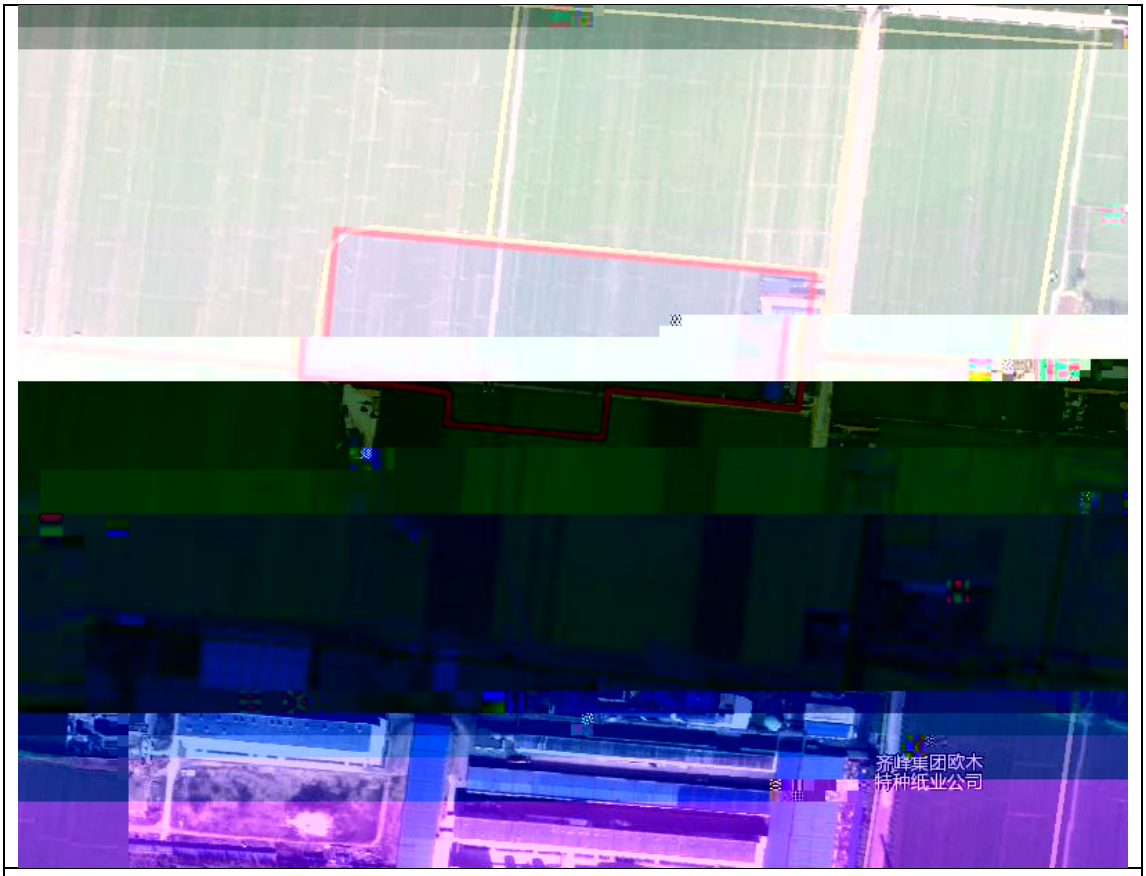
1 0.67hm^2 0.67hm^2

0.20hm^2 Q#? H Dw @ 42160 121 835m

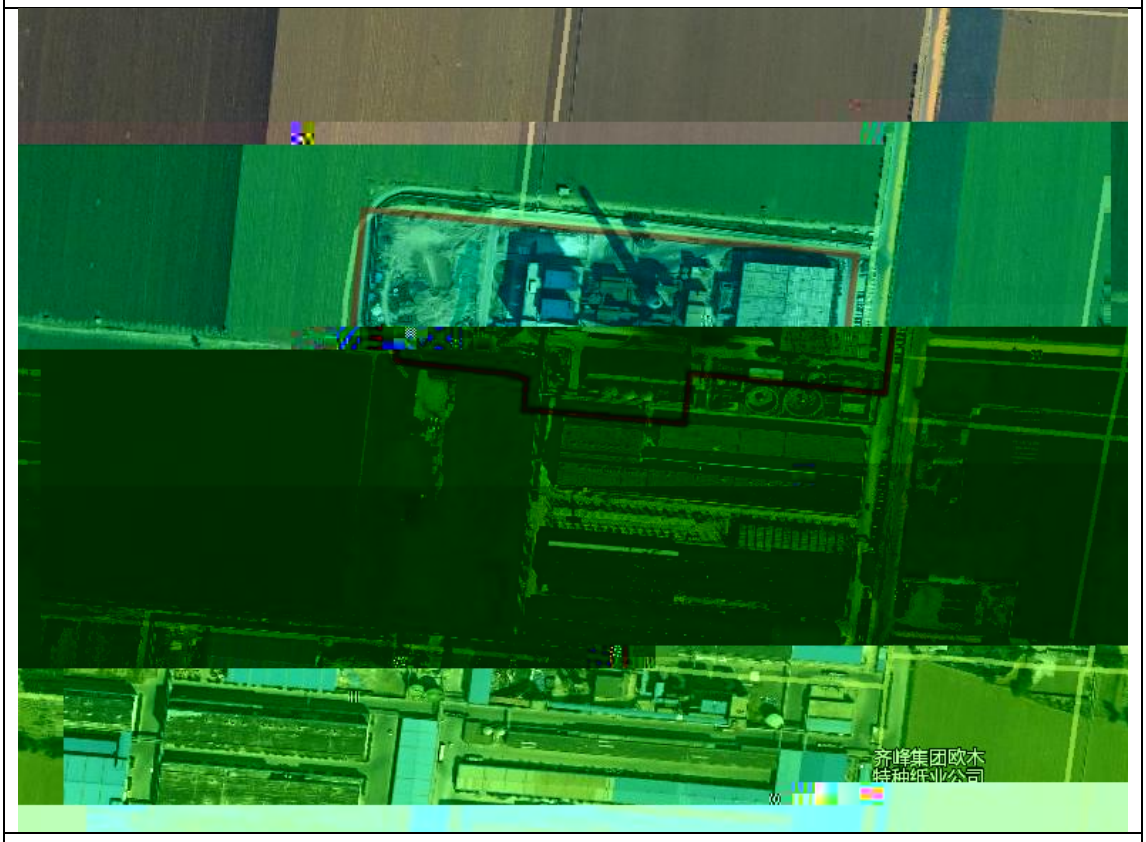
1 297m^2 0.35 m^3 0.25

m

ü# ĸĐL ü - åà tÞ ìØ Ć ž e o ¢Ê €® ` Đ0 n

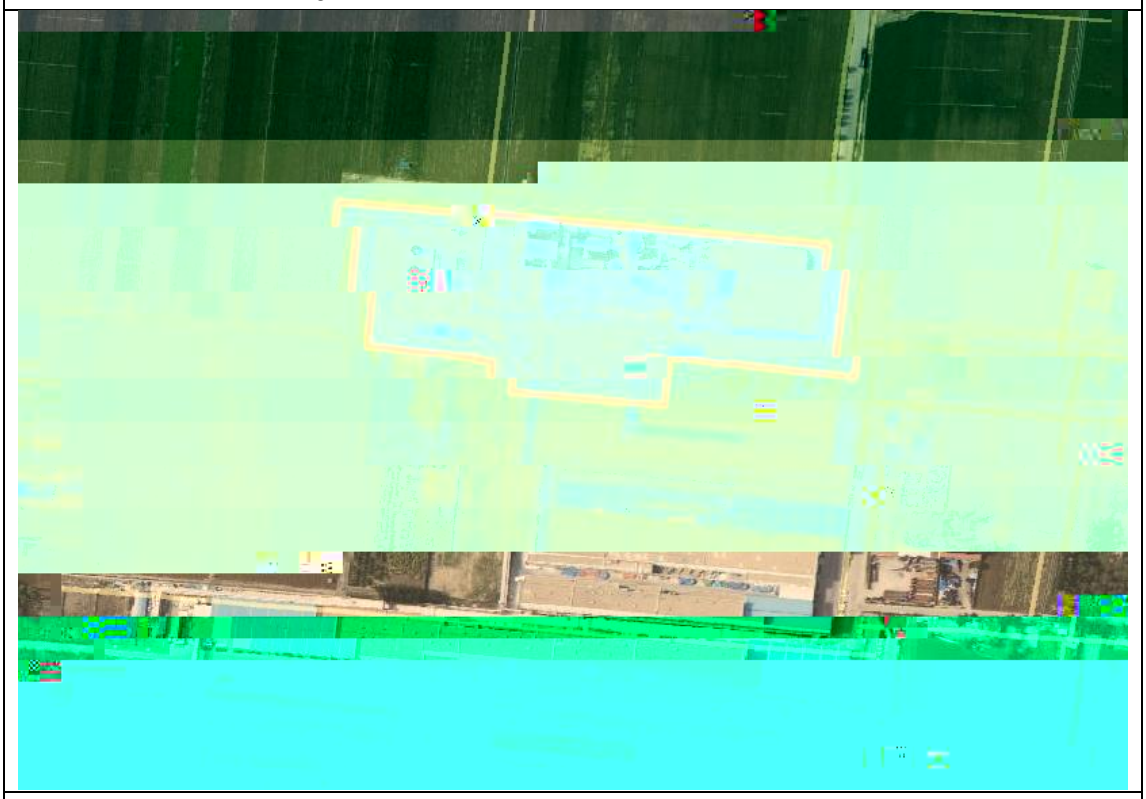


2012 4

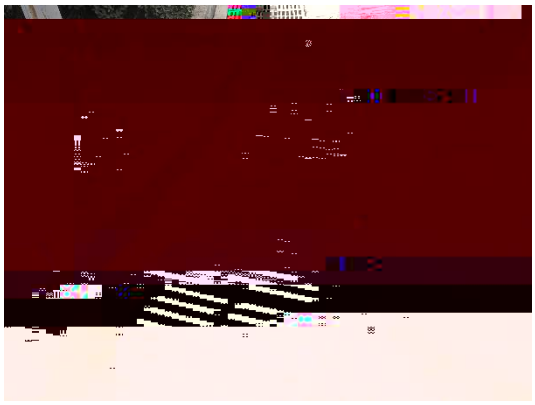


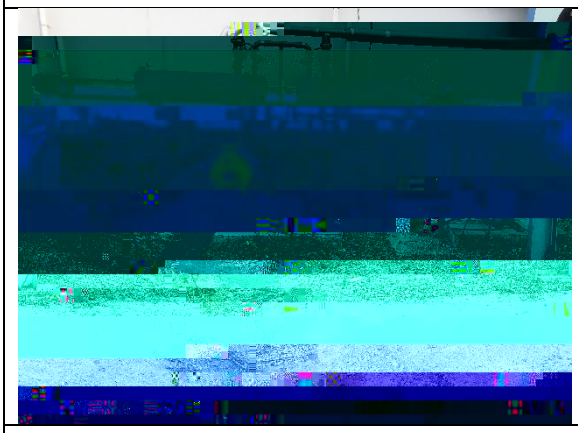
2015 9

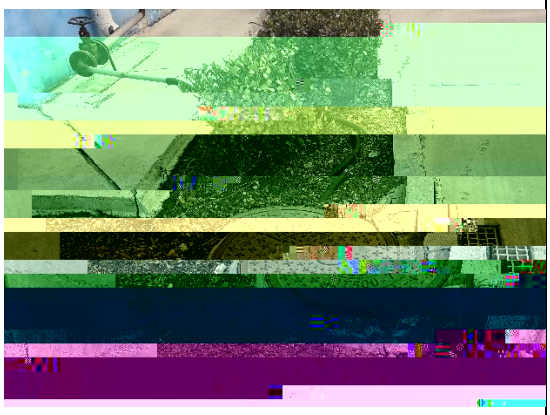
2017 2



2018 5







m

		2013 3.09hm^2		
		6		
		15	15	
		5	5	
		15	15	
		15	15	2m^3 100m^3
		20	20	
		15	15	
		10	4	6
		5	5	
		100	94	

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

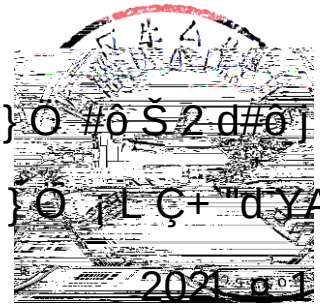
<table>
<tr><td colspan="3">N©- =0</td><td colspan="3">#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-</td></tr>
<tr><td>*Aî … }6„3+ ê ú+eB</td><td colspan="2">D U Þ</td><td colspan="3" rowspan="2">- #{N©- COCS ê Ä1® ‡ ÅÖ ¤ 8</td></tr>
<tr><td>›>˜ ê ú+eB</td><td colspan="2">»7 ></td></tr>
<tr><td colspan="3">k ƒ 0;F Ö</td><td colspan="3">\ “ Ö ¢'” Ã7a.›5, 8 ¬ Ã *Aî È \ “ Ö 0 F O é 7 AÑ 0 F O é 7 P È ›</td></tr>
<tr><td colspan="3">7 7</td><td>AîAÑ kGÿ</td><td>\ “ Ö</td><td>3_AÑ</td></tr>
<tr><td rowspan="4">Ø `>˜M’0 Ä KP Å</td><td colspan="2">8AÑ</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">² j</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">í +O × j</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">B38²C^& j j</td><td colspan="3">"d O 1 é xAîAÑ]B38²C^& j j • `M’0 KP ÈF >|E÷0;] Z ¯+X È \!Q =)B jF >|- #{ Ä</td></tr>
<tr><td rowspan="2">3 O Ä.# Ã$S Å Gÿ Ä 7 P Å</td><td colspan="2">8AÑGÿ3$S j k</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">3$S j</td><td></td><td></td><td></td></tr>
<tr><td colspan="3">• •"d O 1Aî í Gÿ Ä K P × 4 Å</td><td></td><td></td><td></td></tr>
<tr><td rowspan="9">"d O 1 0; F Ö</td><td rowspan="9">² j</td><td rowspan="2">M "d Â"d 3+5</td><td>M "d Â"d1Ñ Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td>M "d Â"d Ç"Ï Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">Â"dNª Õ 0; Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">M "dLö:ô 0; Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">'” jM "d"¹#ð"• Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">O ` ¤"ë Ä KP Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">5/ F Ú í Ä KP Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">d & Â"d"Ï Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">d &"¹"É"• Ä × Å</td><td></td><td></td><td></td></tr>
</table>

"d O
1 0;
F Ö

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2014 ¤1\ ¼“ Ö Å



*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ô ¸ L Ç+ "d ŸAîAÑ ØB 9L€ œ (

2021 ¤ 1 8

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

<table>
<tr><td colspan="2">N©- =0</td><td colspan="3">#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-</td></tr>
<tr><td>*Aî … }6„3+ ê ú+eB</td><td>D U Þ</td><td colspan="3" rowspan="2">- #{N©- COCS ê Ä1® ‡ ÅÖ +O × *Aî … } Å- 1 ÅÖ
¤ 8</td></tr>
<tr><td>›>˜ ê ú+eB</td><td>»7 ></td></tr>
<tr><td colspan="2">k ƒ 0;F Ö</td><td colspan="3">\ “ Ö ¢'” Ã7a.›5, 8 ¬ Ã ‡K5&' o1yF >| k ƒ
*Aî È ² j Ã í +O × jF >| d &Aî í ² Aî È ~\'
Ö 0 F O é 7 P È › 7 P È3_AÑ 0 F O é
7 P È › 7 P Ä</td></tr>
<tr><td colspan="2">7 7</td><td>AîAÑ kGÿ</td><td>\ “ Ö</td><td>3_AÑ</td></tr>
<tr><td rowspan="4">Ø `>˜M’0 Ä KP Å</td><td>8AÑ</td><td></td><td></td><td></td></tr>
<tr><td>² j</td><td></td><td></td><td></td></tr>
<tr><td>í +O × j</td><td></td><td></td><td></td></tr>
<tr><td>B38²C^& j j</td><td colspan="3">"d O 1 é xAîAÑ]B38²C^& j j • `M’0
KP ÈF >|E÷0;] Z ¯+X È \!Q =)B jF >|- #{ Ä</td></tr>
<tr><td rowspan="2">3 O Ä.# Ã$S Å Gÿ Ä 7 P Å</td><td>8AÑGÿ3$S j k</td><td></td><td></td><td></td></tr>
<tr><td>3$S j</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">• •"d O 1Aî í Gÿ Ä K P × 4 Å</td><td></td><td></td><td></td></tr>
<tr><td rowspan="4">"d O 1 0; F Ö</td><td rowspan="4">² j</td><td rowspan="2">M "d Â"d 3+5</td><td>M "d Â"d1Ñ Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td>M "d Â"d Ç"Ï Ä P Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">Â"dNª Õ 0; Ä × Å</td><td></td><td></td><td></td></tr>
<tr><td colspan="2">M "dLö:ô 0; Ä × Å</td><td></td><td></td><td></td></tr>
</table>

'"éÁa1’A W,ƒ•) 8r, -Ò(2®™ '

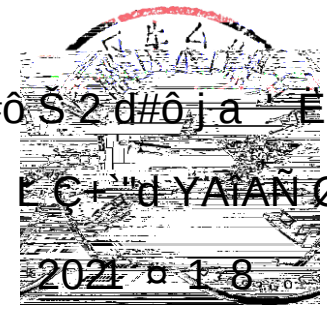
+O × *AîN©- "d O 1- #{ 98¢Aô ' 7 7 úC{ 6>˜

N©- =0		#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ ×		N©-
- #{ &!å ¼Lb"ëCS +93 $		2014 ¤1\ ¼“ Ö È 3.51hm²		
98¢Aô '5 Aê Ä .F9 Å		5/8¢ 6 Tô8¢		4Ò8¢
Aô ' 7 7		6 l	Ç 6	C{ 6B$ >
	Ø93 $ × f	15	15	B N©- U l × f Ø93 $ È ™ W í ØM’ õ å È \ 4 = “ 6 Ä
Ø O ` õ å	>˜ O •/ë Ô	5	5	B N©- "

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2014 ¤1\ 9 “ Ö Å



*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ Ë Ç+ ”d YAîAÑ ØB 9L€ œ (

2021 ¤ 1 8

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

N©- =0		#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-		
*Aî … }6„3+ ê ú+eB	D U Þ	- #{N©- COCS ê Ä1® ‡ ÅÖ	O × ÂÎ . } Ä- 1 ÅÖ	
›>˜ ê ú+eB	»7 > Þ†$ì7îì•a63q%x(2á FuòŸÐŒ±Ó”È yÀ¢,q 0			
k ƒ 0;F Ö		\ “ Ö ¢'" Ã7a.›5, 8 ¬ Ã " *Aî ¼ @ È!“ XF >| Ô FG} ‡Ä1´ ª Aî E \ “ Ö 0 F O é 7 P È › 7 P È3_AÑ 0 F O é 7 P È › 7 P Ä		
7 7		AîAÑ kGÿ	\ “ Ö	3_AÑ
Ø `>˜M’0	8AÑ			
	² j			
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
	B38²C^& j j	"d O 1 é xAîAÑ]B38²C^& j j • `M’0 KP ÈF >|E÷0;] Z ¯+X È \!Q =)B jF >|- #{ Ä		

3 O Ä.# Ã$S Å

Gÿ Ä 7

"d O 1 0; F Ö		d & Q Ä P Å			
		>˜ O •/ë Ä 7 P Å			
		# 5 .#D M'Lb Ô Ä 7 P Å			
	í + O × j	O ` ¤"ë Ä KP Å		B j 6 O$5*6 > 0 û *Aî""'d 4 *61 È # Î íB N© Ú í Ä	
		5/ F Ú í Ä KP Å			
		d & Â"d"Ï Ä PÅ			
		d & 6 OLb Ô Ä PÅ			
		Lb H5• d & ?¶- Ú í Ä P Å			
		>˜ O •/ë Ä 7 P Å			
"d O#q a ¡ ý €		L}M Gÿ ÄP PÅ			
		0 W ? &L}M Ä P PÅ			
		0 WNþFO ÄP ÅX			
O #q aGÿ Ä WÅX		² j			
		í +O × j			
"d O#q a&® ã » &					
ˆ XL NÈ > *AÞ					

+O × *AîN©- "d O 1- #{ 98¢Aô ' 7 7 úC{ 6>˜

N©- =0		#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-		
- #{ &!å ¼Lb"ëCS +93 $		2014 ¤1\ 9 “ Ö È 3.51hm²		
98¢Aô '5 Aê Ä .F9 Å		5/8¢ 6 Tô8¢ 4Ò8¢		
Aô ' 7 7		6 l	Ç 6	C{ 6B$ >
Ø O ` õ å	Ø93 $ × f	15	15	B N©- U l × f Ø93 $ È ™ W í ØM’ õ å È \ 4 = “ 6 Ä
	>˜ O •/ë Ô	5	5	B N©- " ¼ @>˜ O •/ë È \ 4 = “ 6 Ä
	3 O Ä.# Ã $S Å 6 n	15	15	N©- 3 O Ä.# Ã$S Å 6 n È \ 4 = “ 6 Ä
"d O#q a(æ å		15	15	\ “ Ö O #q a kGÿ 9m³ È =Cã 100m³ È \ 4 = “ 6 Ä
"d O#q aLb"ë @ x	0; Ú í	20	14	\ “ Ö Â"dNª Õ 0; ÃM "dLö:ô 0; Z Î í È \ 4 “ 6 6 Ä
	=(™ Ú í	15	15	\ “ Ö " Î í =(™ Ú í Ä \ 4 = “ 6 Ä
	d & Ú í	10	10	d & Ú í " Î í ` } Ä \ 4 = “ 6 Ä
"d O#q a ¡ ã		5	5	"d O#q a ¡ ã +O È \ 4 = “ 6 Ä
8AÑ		100	94	

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2014 ¤1\ “ Ö Å

*Aî … } Ö #ô Š 2 d#ô j a' Ë 9L€ œ (

5F f … } Ö ¡Ì Ç+ "d YÃIÃÑ ØB 9L€ œ (

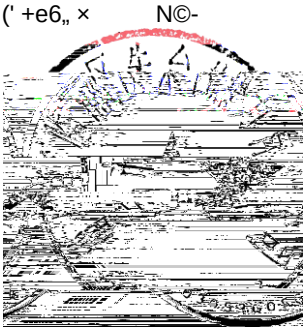
2021 ¤ 1 8

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

N©- =0



		d & Q Ä P Å			
		>˜ O •/ë Ä 7 P Å			
		# 5 .#D M’Lb Ô Ä 7 P Å			
"d O 1 0; F Ö		O ` ¤"ë Ä KP Å		B j 6 O$5*6 > 0 û *Aî"'"'d 4 *61 È # Î íB N© Ú í Ä	
		5/ F Ú í Ä KP Å			

í d & Â"d"Ï Ä PÅ

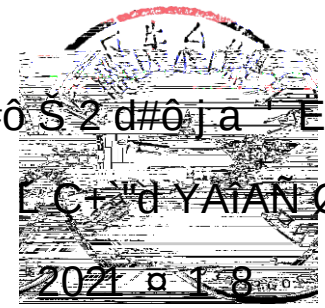
+ O ›

j

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2015 ¤1\ 0 “ Ö Å



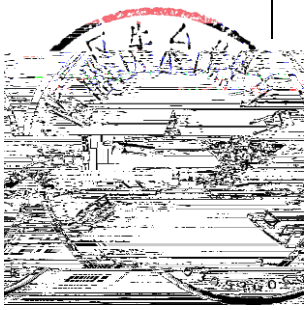
*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ L Ć+ ‘“d ŸÄíAÑ ØB 9L€ œ (

202Ī ¤ 1 8

+O × *AîN©- "d O 1- #{ “ Ö Õ z>˜

- #{ &!å Ö ¤ 8 8# ¤ 8

N©- =0	#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-
*Aî … }6„3+ ê ú+eB D U Þ	

#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-

"j U 7 - #• ™ Ü Û €

Ä2015 ¤1\ ¼“ Ö Å

*Aî … } Ö #ô Š 2 d#ô j a ' Ë 9L€ œ (

5F f … } Ö ¡ L Ç+ ²d YÀIÀÑ ØB 9L€ œ (

+O × *AîN©- "d O 1- #{ 98¢Aô ' 7 7 úC{ 6>˜

N©- =0		#ô Š 2 d#ô j a ' Ë 9L€ œ (' +e6„ × N©-		
- #{ &!å ¼Lb"ëCS +93 $		2015 ¤1\ ¼“ Ö È 3.51hm²		
98¢Aô '5 Aê Ä .F9 Å		5/8¢ 6 Tô8¢ 4Ò8¢		
Aô ' 7 7		6 l	Ç 6	C{ 6B$ >
Ø O ` õ å	Ø93 $ × f	15	15	B N©- U l × f Ø93 $ È ™ W í ØM’ õ å È \ 4 = “ 6 Ä
	>˜ O •/ë Ô	5	5	B N©- " ¼ @>˜ O •/ë È \ 4 = “ 6 Ä
	3 O Ä.# Ã $S Å 6 n	15	15	N©- 3 O Ä.# Ã$S Å 6 n È \ 4 = “ 6 Ä
"d O#q a(æ å		15	15	\ “ Ö O #q a kGÿ 2m³ È =Cã 100m³ È \ 4 = “ 6 Ä

"d O#q aLb"ë

@ x

صى Ä Ч

		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	302.6	459.2
		24 mm	-	54.5	-
		m/s	-	5.6	-
t			-	2	39
			-	0	4

		m^3	0.20	0	0.20

m^2

صى Ä Ч

2016

2021 1

2016 1 1 2016 3 31

	/13475574008			
	/13021502421	2021 1 22		
		m³ 1.19 m	0 m³ 1.19 m	0
hm²		5.01	0	3.51
		4.51	0	3.01
		0.50	0	0.50
		hm²		1.00
m³	/	0/0	0/0	0/0
	1	/	/	/
hm²/ /		/	/	/
	m	135	0	0
	m	1520	0	1480
		1	0	0
		2	0	0
		1	0	1
	hm²	0.67	0	0.60
	hm²	0.67	0	0.60
	m	650	0	660
		1	0	1
	m²	297	0	297

6

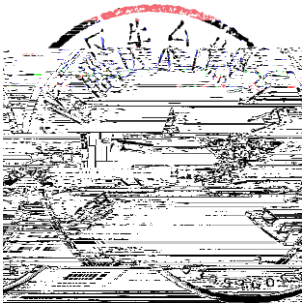
2016 4 1 2016 6 30

	/13475574008			
	/13021502421	2021 1 22		
		m³ 1.60 m		
hm²		5.01	0	5.01
		4.51	1.50	4.51
		0.50	0	0.50

		2016 5.01hm^2		
		15	15	
		5	5	
		15	15	
		15	15	6m^3 100m^3

		m^2	297	0	297
		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	243.5	468.1
		24 mm	-	51.4	-
		m/s	-	5.6	-
t			-	6	54
			-	0	4

		2016 5.01hm^2		
		15	15	
		5	5	
		15	15	
		15	15	6m^3 100m^3
		20	14	
		15	15	
		10	8	
		5	5	
		100	92	



2016 10 1 2016 12 31

		m^2	297	0	297
		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	69.5	537.6
		24 mm	-	10.7	-
		m/s	-	4.5	-
			-	6	60

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		2017 5.01hm^2		
		15	15	
		5	5	
		15	15	
		15	15	6m^3 100m^3
		20	14	
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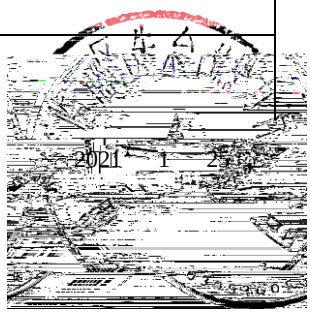
	/13475574008		
	/13021502421	2021 1 25	



		m^2	297	0	297
		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	138.6	176.0
		24 mm	-	36.3	-
		m/s	-	3.2	-
			-	6	72
t			-	0	4

		2017		5.01hm^2
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		15	15	
		5	5	

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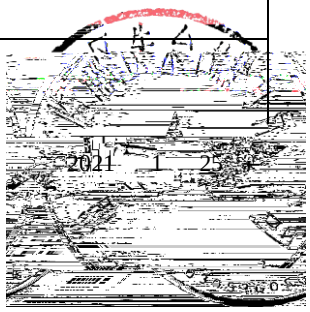

		m^2	297	0	297
		m^3	0.20	0	0.20
		m^2	0.25	0	0.25
		hm^2	0.50		
		hm^2	0.50		
		m	160	0	175
		m	142	0	142
		m^2	800	0	830
		m^3	0.15	0	0.15
		mm	-	208.7	384.7

		2017		5.01hm^2
		15	15	
		5	5	

2017 10 1 2017 12 31

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	/13021502421	2021 1 25	2021 1 25	
		0 m^3 1.60 m^3	0 m^3 1.60 m^3	
hm^2		5.01	0	5.01
		4.51	0	4.51
		0.50	0	0.50
		hm^2		1.00
m^3	/	0/0	0/0	0/0
	1	/	/	/
hm^2/ /		/	/	/
	m	135	0	150
	m	1520	0	1480
		1	0	0
		2	0	0
		1	0	1
	hm^2	0.67	0	0.67
	hm^2	0.67	0	0.67
	m	650	0	660
		1	0	1

	2017 5.01hm^2		

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¶ Ò 6 m^3

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¢ g g	30900	Òß h V } N ˜ ÷$ Õ7

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5F f … } Ö ¡ L Ç+ `" d YAîAÑ ØB 9L€ œ (

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		/ æ n m	0	1480
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, Õ	Ó $ Î hm²	0	0.6
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2015 - ,¨ Î ¬] Q h Î ¶ 3-5 d

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4. Ò û ž Æ ã N _ ³

4.1 Ò û ž K r ³

T l 2015 - g ³ 8 Ò û ž V ‘ Ÿ “ } N Ä ÷ $ Õ 7 R ‘ g Ò û ž K r Î ¶ 4-1 d

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• ‘ g	35100	
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‘ g	35100	

4.2 Ò û ž h ³ ´

‘ g	í ™ ž h t	& ™ ž h t
¢ ‘ g	2	39
• ‘ g	2	41
8 ‘ g	2	43
‘ g	2	45

4.3 Ü `G™Žò!!G#•H e®¿q\ 0—€> B0B8/MCID2.66 TJ ET Q EMC /Span <<

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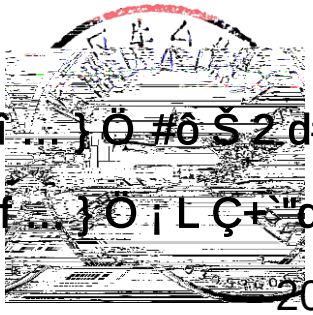

*Aî … } Ò #ô Š 2 d#ô j a ' Ë 9L€ œ (

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	, ¨ æ n m	0	
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1.3 ³] ´ ¬ Æ ã

», 2014 - 4 e 9 ¹ ¶ t V J ˜ F ¯ ¦ w Š Đ Ç , Š Õ K [O « d (S ! », Ò l [º # q A à " Œ @ x ? Œ V 2014 - 6 e 3 V J ˜ F ¯ » º " [2014]140 Ü • Ÿ t w ' Š Đ Ç , Š Õ K [O « d (S ! », Ò l [º # q A à x d

Ù • æ * 2021 - 1 e á A æ *) û Ò l [³ T l] ‡ x c ³ 8 ‡ x » ƒ 2016 - / ò õ ¾ © % 2016 - ' g ³ q A 2016 - ¢ ' g ' g ³ q A à q ä 2016 - ³ - g q A d

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³ Ì¦ ¹¶]‡ x c ³ 8 ‡ x Ó e s » , Õ ¸ ¬ Ò l [ ]Q Î) û ³ d

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2016 -]Q Î ¬]Q h Î ¶ 3-1 d

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, Õ	Ó $ Î hm²	0	0.6
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3×130t/h +2×B12MW

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		m		
		m		
	hm^2			
	hm^2			
	m			
	m^2			
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1-1 2017

	hm^2		
	m		
	m		
	m^2		
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		m				
		m				
					0	
					0	
	[redacted]					

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		m	150	150
		m	0	1480
			0	0
			0	0
		hm^2		
		hm^2		

3-4

	hm^2	0.07	0.67
	hm^2		

3.3

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2017

3-6

	m		
	m^2		
	m^3		
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	m		
	m		
	m^2		
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3.4

2017 -7

3-7

	m		150	150
	m		0	1480
			0	0
			0	0
			0	
	hm^2		0.07	
	hm^2		0.07	
	m		0	
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m

3