Nalco Upstream Complete Visuals

avanade

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<Highly Confidential> See Avanade's Data Management Policy

Dashboard

My Sites

List View | Financials | Orders

Customize | Favorites

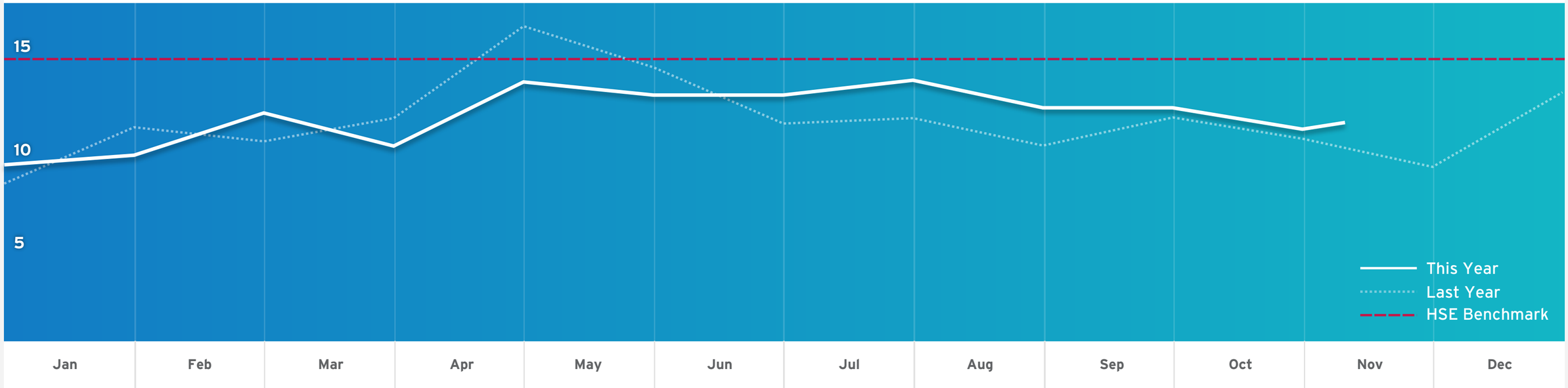
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

- Great Natural Buttes (2)
- Eagle Ford (3)
- Salt Creek (2)

DISPLAYING CURRENT DATA

My Sites

List View | Financials | Orders

Customize | Favorites

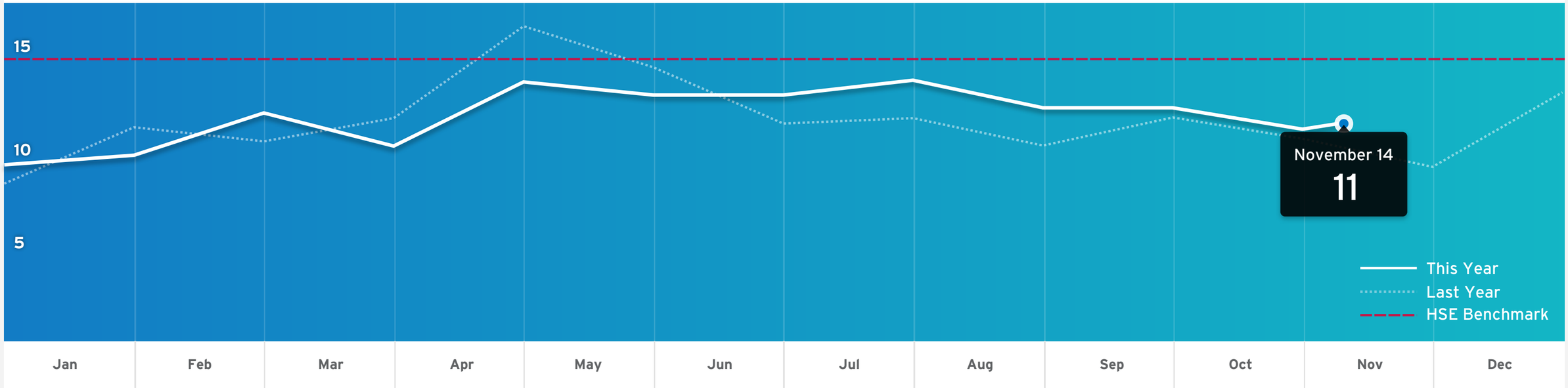
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

- Great Natural Buttes (2)
- Eagle Ford (3)
- Salt Creek (2)

DISPLAYING CURRENT DATA

VIEW GRAPHS BY **Year To Date**

UNIT TYPE **Imperial**

- 7 Days
- 14 Days
- 1 Month
- 2 Months
- 3 Months
- 6 Months
- 1 Year
- Year To Date ✓
- Previous Quarter
- Current Quarter

My Sites

List View | Financials | Orders

ize Favorites

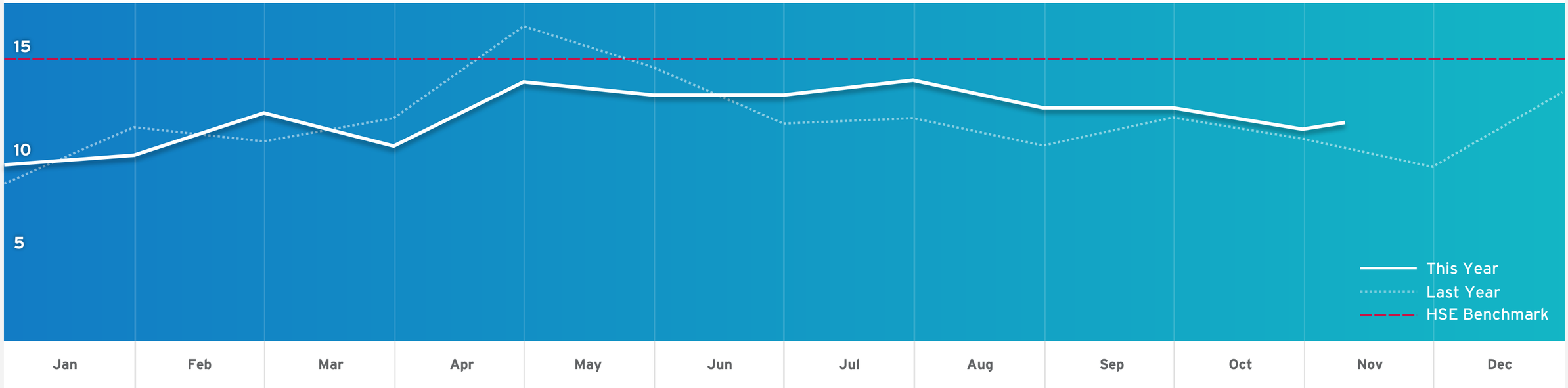
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatme Products		DE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M		58		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M		58		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M		58		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M		58		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M		58		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M		58		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

- Great Natural Buttes (2)
- Eagle Ford (3)
- Salt Creek (2)

DISPLAYING CURRENT DATA

Sites

VIEW GRAPHS BY Year To Date

UNIT TYPE Imperial
- Imperial ✓
- Metric

My Sites

List View | Financials | Orders

Customize | Favorites

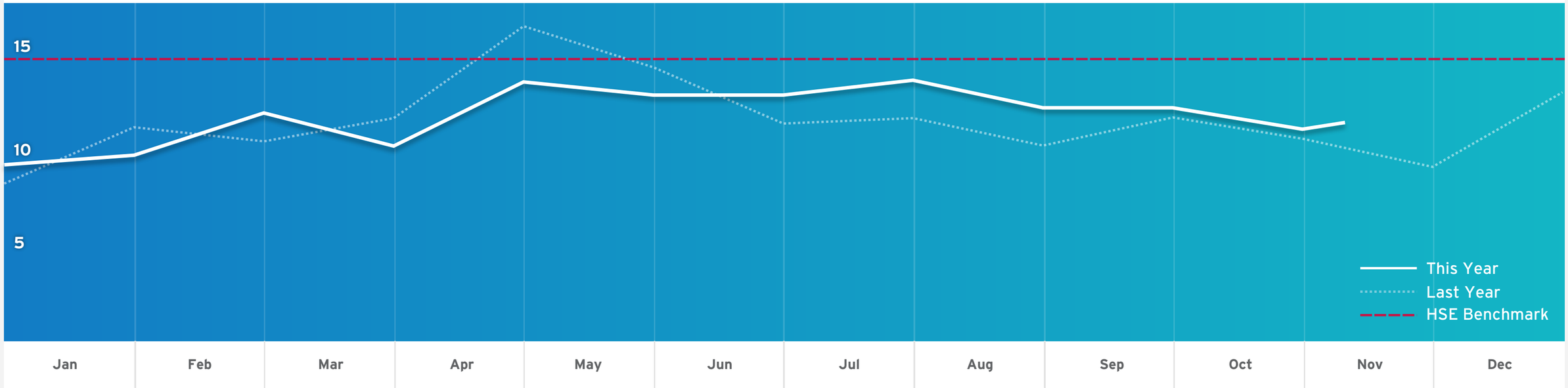
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

- Great Natural Buttes (2)
- Eagle Ford (3)
- Salt Creek (2)

DISPLAYING CURRENT DATA

My Sites

List View | Financials | Orders

Customize | Favorites

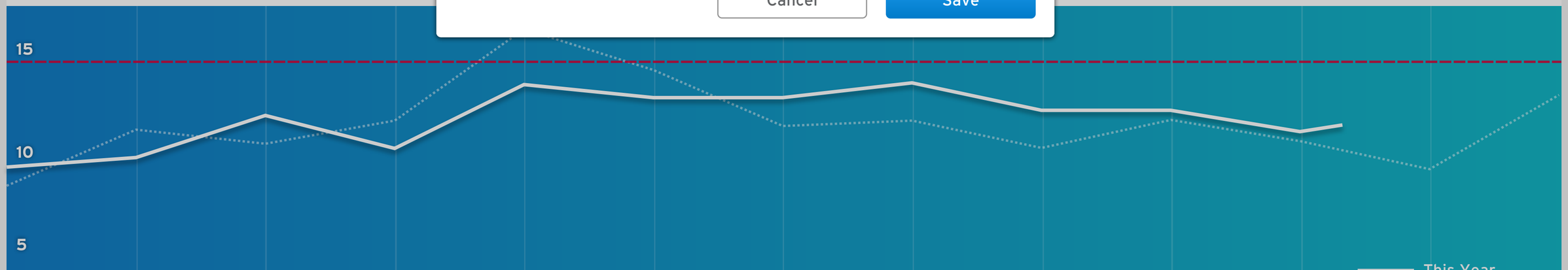
Customer	Site Name	Safety Incidents	...tment ...ucts (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	M	12	$0.68		★
Oxy	Permian EOR West	12	M	12	$0.68		☆
Koch	East Texas	12	M	12	$0.68		☆
Murphy	East Texas	12	M	12	$0.68		★
Anadarko	Great Natural But..	12	M	12	$0.68		★
XTO	Midland TX	12	M	12	$0.68		☆
Noble Energy	Colorado	12	M	12	$0.68		☆
Anadarko	Salt Creek	12	M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | ...ss Margin

All | Salt Creek | Great Natural Bu



Edit | Filter

Customize the columns displayed in this table by checking or unchecking the options below.

- [ ] Global Region
- [ ] Region
- [ ] District
- [x] Customer Name
- [x] Site Name
- [x] Safety Incidents
- [x] Near Misses
- [x] Products Delivered (Gal)
- [x] Products Delivered (USD)
- [x] Treatment Products (Gal)
- [x] Treatment Products (USD)
- [x] H2S Removed (Lbs)
- [x] $/BOE
- [x] Dosage In/Out Spec

Cancel | Save

RefinedKnowledge

Search

4

JS

Sites

VIEW GRAPHS BY Year To Date

UNIT TYPE Imperial

My Sites

List View | Financials | Orders

Customize | Favorites

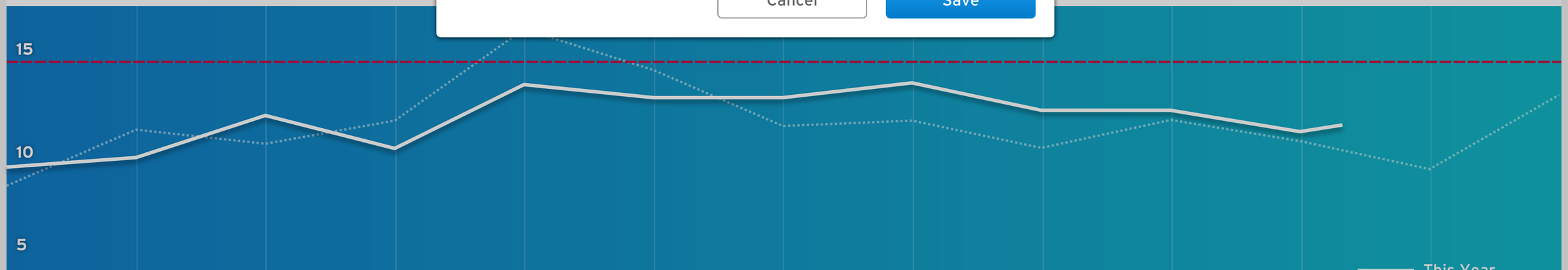
Customer	Site Name	Safety Incidents	...tment ...ucts (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	M	12	$0.68		★
Oxy	Permian EOR West	12	M	12	$0.68		☆
Koch	East Texas	12	M	12	$0.68		☆
Murphy	East Texas	12	M	12	$0.68		★
Anadarko	Great Natural But..	12	M	12	$0.68		★
XTO	Midland TX	12	M	12	$0.68		☆
Noble Energy	Colorado	12	M	12	$0.68		☆
Anadarko	Salt Creek	12	M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | ...ss Margin

All | Salt Creek | Great Natural Bu



Edit | Filter

Customize the columns displayed in this table by checking or unchecking the options below.

- [ ] Global Region
- [ ] Region
- [x] District
- [x] Customer Name
- [ ] Site Name
- [x] Safety Incidents
- [x] Near Misses
- [x] Products Delivered (Gal)
- [x] Products Delivered (USD)
- [x] Treatment Products (Gal)
- [x] Treatment Products (USD)
- [x] H2S Removed (Lbs)
- [x] $/BOE
- [x] Dosage In/Out Spec

Cancel | Save

My Sites

List View | Financials | Orders

Customize | Favorites

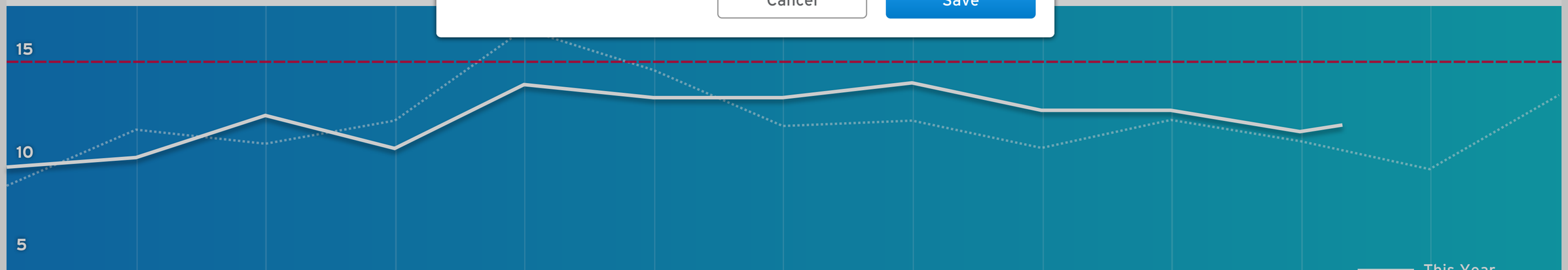
Customer	Site Name	Safety Incident	...tment ...ucts (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	M	12	$0.68		★
Oxy	Permian EOR West	12	M	12	$0.68		☆
Koch	East Texas	12	M	12	$0.68		☆
Murphy	East Texas	12	M	12	$0.68		★
Anadarko	Great Natural But..	12	M	12	$0.68		★
XTO	Midland TX	12	M	12	$0.68		☆
Noble Energy	Colorado	12	M	12	$0.68		☆
Anadarko	Salt Creek	12	M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | ...ss Margin

All | Salt Creek | Great Natural Bu



Edit | Filter

Customize the columns displayed in this table by checking or unchecking the options below.

- [x] $/BOE
- [x] Dosage In/Out Spec
- [ ] GM%
- [ ] TRIR
- [ ] TVAR
- [ ] Operational Data
- [ ] Finacial Data

Cancel | Save

RefinedKnowledge

Search

4

JS

Sites

VIEW GRAPHS BY Year To Date

UNIT TYPE Imperial

My Sites

List View | Financials | Orders

Customize | Favorites

Customer	Site Name	Safety Incidents	...tment ...ducts (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	M	12	$0.68		★
Oxy	Permian EOR West	12	M	12	$0.68		☆
Koch	East Texas	12	M	12	$0.68		☆
Murphy	East Texas	12	M	12	$0.68		★
Anadarko	Great Natural But..	12	M	12	$0.68		★
XTO	Midland TX	12	M	12	$0.68		☆
Noble Energy	Colorado	12	M	12	$0.68		☆
Anadarko	Salt Creek	12	M	12	$0.68		☆

DISPLAYING CURRENT DATA

Edit | Filter

Filter the data included in this table by checking or unchecking the options below.

GLOBAL REGION

- [ ] AP
- [ ] LA
- [ ] MEA
- [x] NA
- [ ] UE

REGION

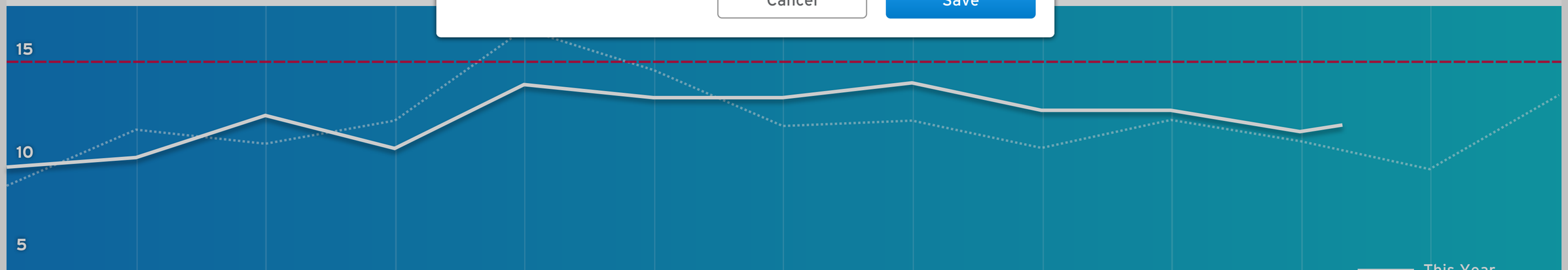
- [x] Midwest
- [x] Rockies
- [x] Southwest

Cancel | Save

Trends

Safety Incidents | Near Misses | Finanical Cost | ...ss Margin

All | Salt Creek | Great Natural Bu



My Sites

List View | Financials | Orders

4 Customize | Favorites

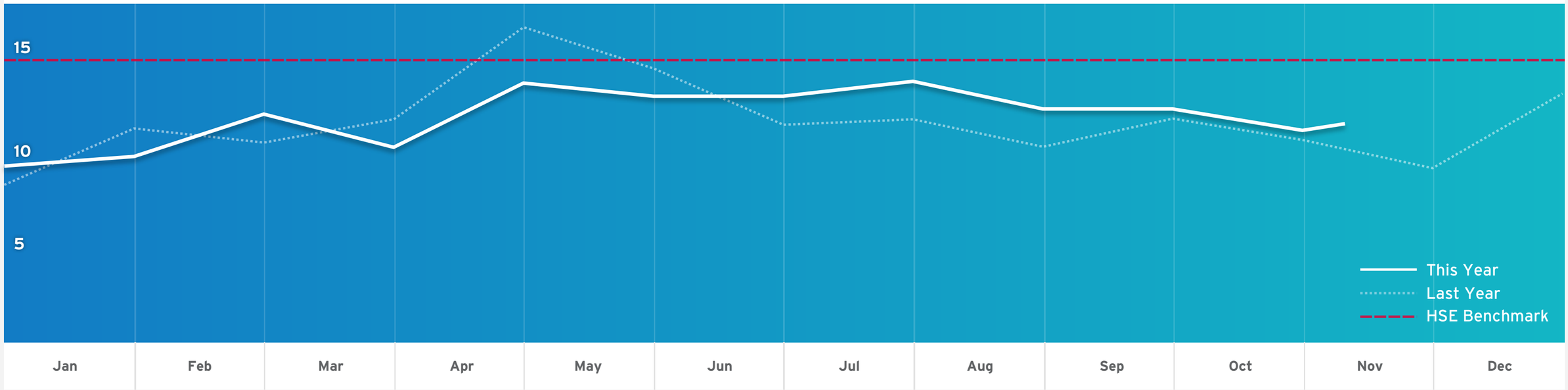
District	Customer	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Products Treated (Gal)	Products Treated (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Southwest	Devon	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Midwest	Oxy	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Southwest	Koch	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Southwest	Murphy	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Rockies	Anadarko	24	10	24 M	67.2 M	16 M	44 M	24	$0.68		★
Southwest	XTO	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Rockies	Noble Energy	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

My Sites

List View | Financials | Orders

Customize | Favorites

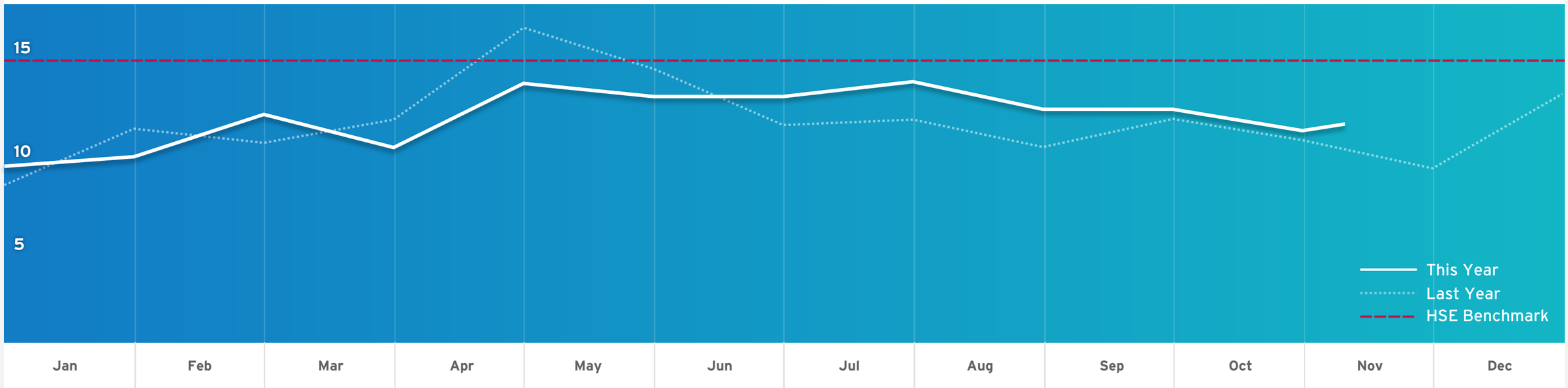
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

- Great Natural Buttes (2)
- Eagle Ford (3)
- Salt Creek (2)

DISPLAYING CURRENT DATA

My Sites

List View | Financials | Orders

Customize | Favorites

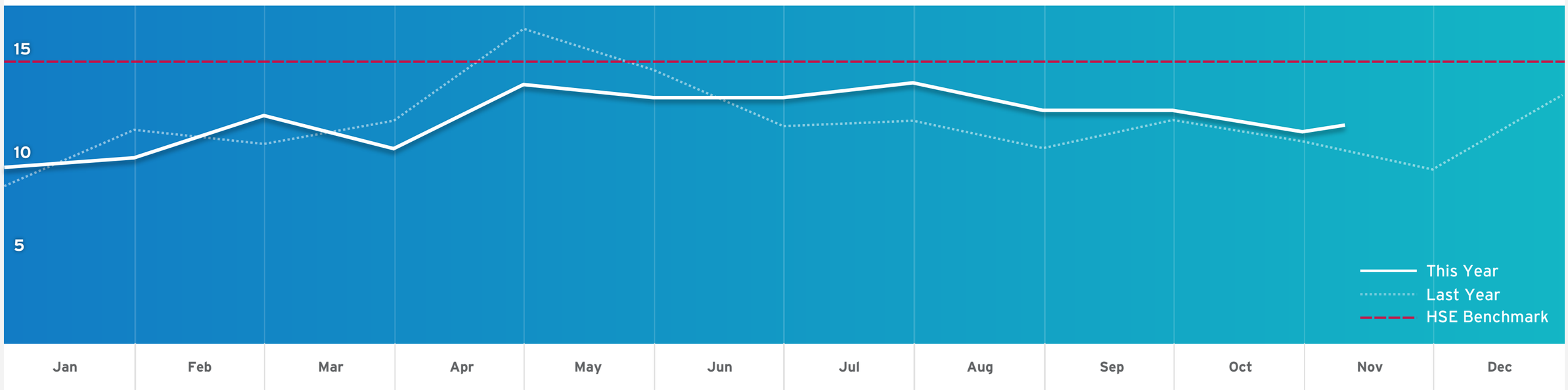
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

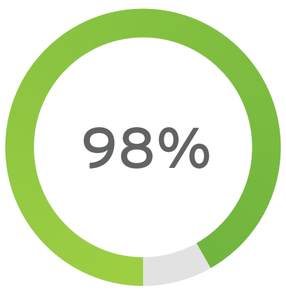
Watchlist

Great Natural Buttes (18)

Eagle Ford (3)

BUCHHORN B1 - LESKE A1

Deviation from Target Usage



5% - 7 Days

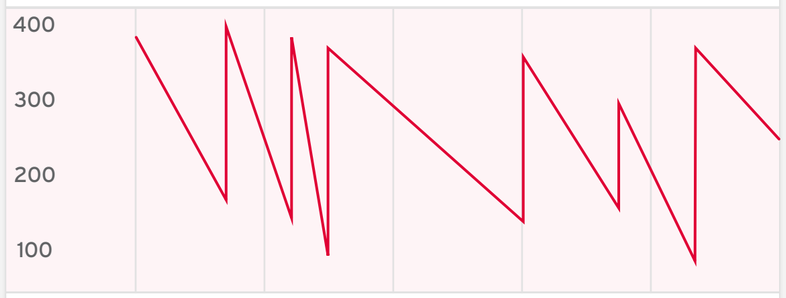
J-HERMANN B1

Tank Detail

Draw Down Rate	7
Target Dosage (QPD)	220
⚠ Usage Rate with Deliverables	523.77
Calculated Dosage Rate	335.8

MCCURDY A1

Tank Detail Graph



Salt Creek (2)

DISPLAYING CURRENT DATA

My Sites

List View | Financials | Orders

Customize | Favorites

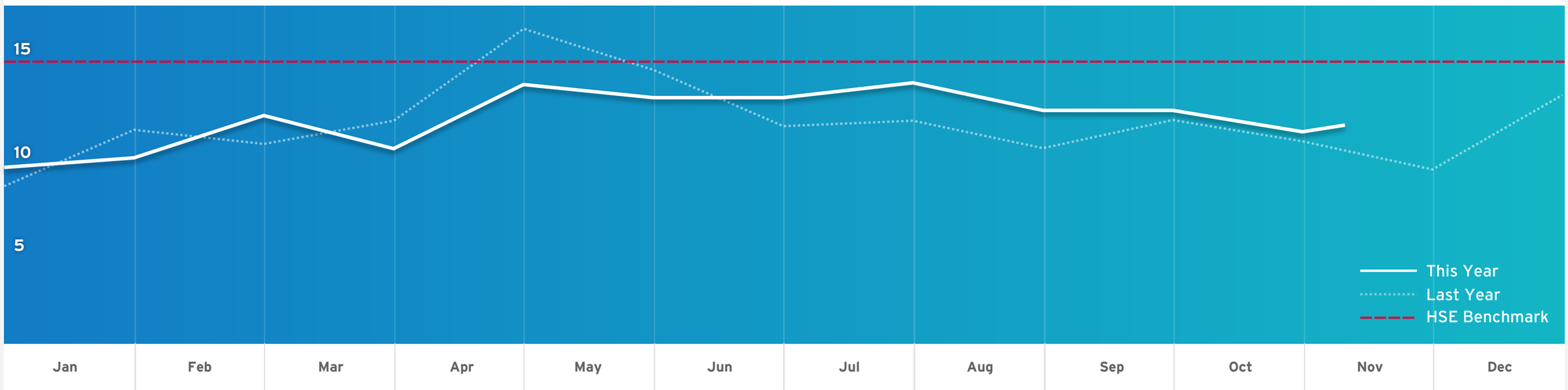
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

Great Natural Buttes (18)

Eagle Ford (3)

BUCHHORN B1 - LESKE A1

Deviation from Target Usage

98%

5% - 7 Days

J-HERMANN B1

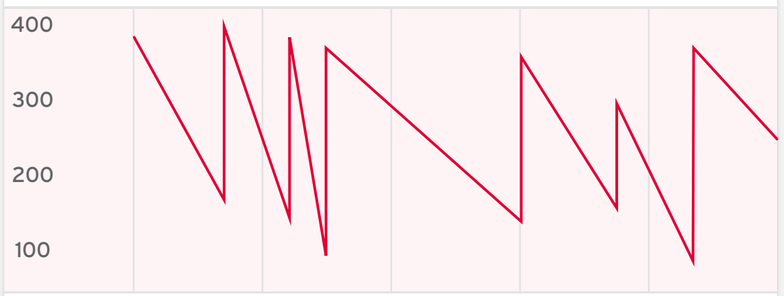
Tank Detail

Draw Down Rate	
Target Dosage (QPD)	
Usage Rate with Deliverables	523.77
Calculated Dosage Rate	335.8

Add To Report
Export As Image
Export As Excel

MCCURDY A1

Tank Detail Graph



Salt Creek (2)

DISPLAYING CURRENT DATA

My Sites

List View | Financials | Orders
Customize | Favorites

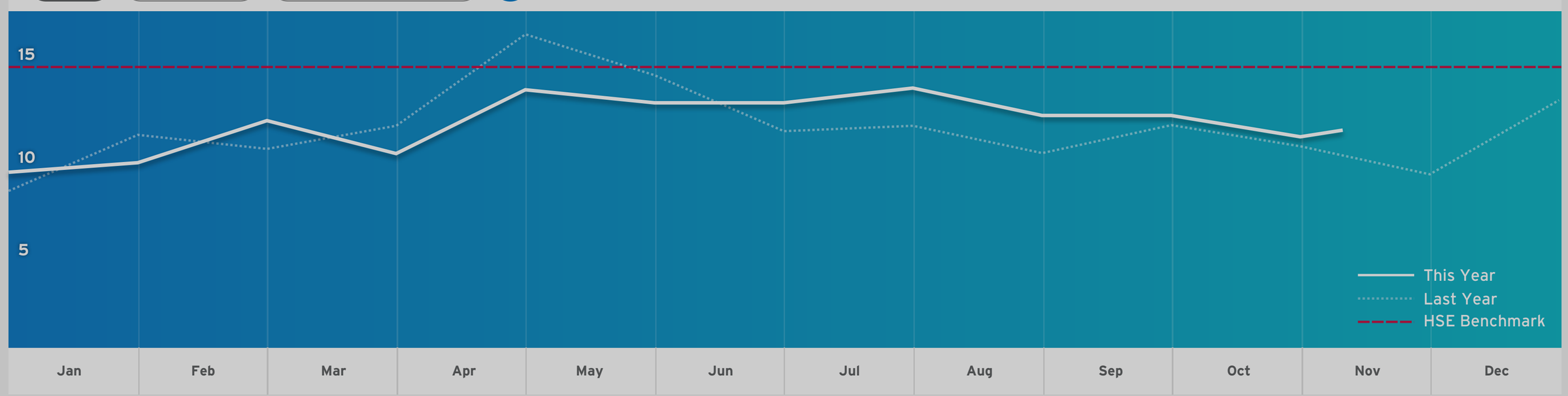
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

Great Natural Buttes (18)

Eagle Ford (3)

BUCHHORN B1 - LESKE A1

Deviation from Target Usage

98%

5% - 7 Days

J-HERMANN B1

Tank Detail

Draw Down Rate	7
Target Dosage (QPD)	220
⚠ Usage Rate with Deliverables	523.77
Calculated Dosage Rate	335.8

MCCURDY A1

Tank Detail Graph

400
300
200
100

Remove from Asset Watchlist?

Cancel | Remove

Draw Down Rate

Salt Creek (2)

DISPLAYING CURRENT DATA

My Sites

List View | Financials | Orders

Customize | Favorites

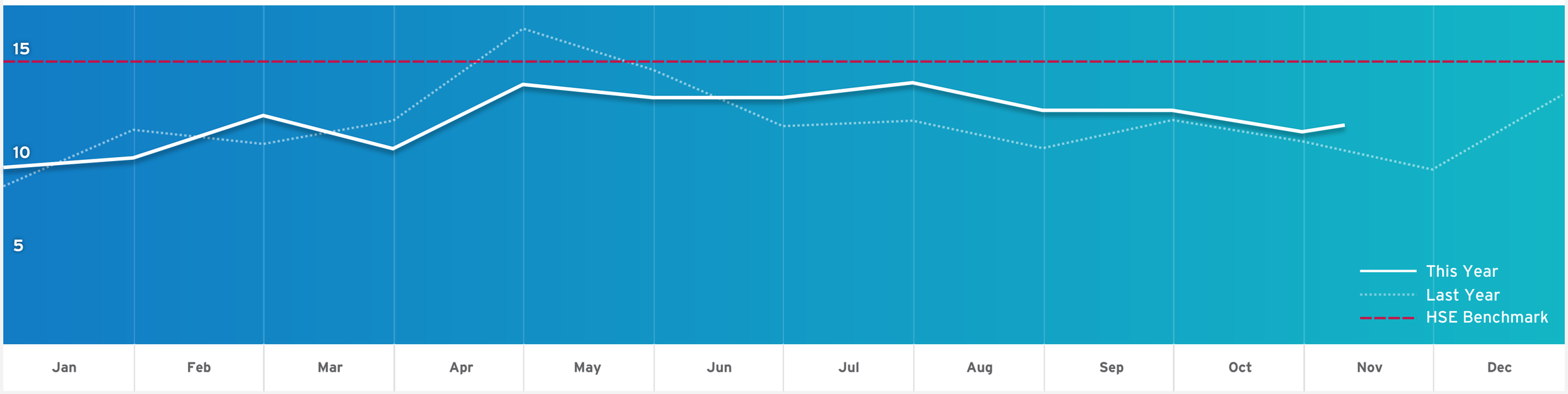
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

Great Natural Buttes (18)

Eagle Ford (3)

BUCHHORN B1 - LESKE A1

Deviation from Target Usage

98%

5% - 7 Days

J-HERMANN B1

Tank Detail

Draw Down Rate	7
Target Dosage (QPD)	220
⚠ Usage Rate with Deliverables	523.77
Calculated Dosage Rate	335.8

Asset removed from watchlist Undo

Salt Creek (2)

DISPLAYING CURRENT DATA

My Sites

List View | Financials | Orders

Customize | Favorites

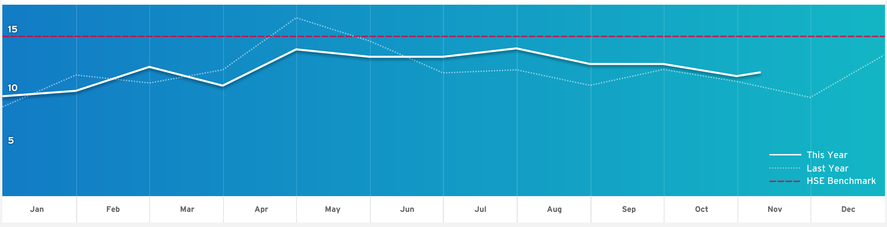
Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (USD)	Treatment Products (Gal)	Treatment Products (USD)	H2S Removed (Lbs)	$/BOE	Dosage In/Out Spec	★
Devon	Eagle Ford	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Oxy	Permian EOR West	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Koch	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Murphy	East Texas	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
Anadarko	Great Natural But..	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		★
XTO	Midland TX	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Noble Energy	Colorado	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆
Anadarko	Salt Creek	12	5	12 M	33.6 M	8 M	22 M	12	$0.68		☆

DISPLAYING CURRENT DATA

Intelex Safety Stats

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes | +



DISPLAYING YEAR TO DATE

Watchlist

Great Natural Buttes (18)

BUCHHORN B1 - LESKE A1

Deviation from Target Usage

98%

5% - 7 Days

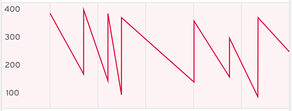
J-HERMANN B1

Tank Detail

Draw Down Rate	7
Target Dosage (QPD)	220
⚠ Usage Rate with Deliverables	523.77
Calculated Dosage Rate	335.8

MCCURDY A1

Tank Detail Graph



BUCHHORN B1 - LESKE A1
Deviation from Target Usage
98%
5% - 7 Days
J-HERMANN B1
Tank Detail
Draw Down Rate 7
Target Dosage (QPD) 220
Usage Rate with Deliverables 523.77
Calculated Dosage Rate 335.8
MCCURDY A1
Tank Detail Graph
Draw Down Rate
BUCHHORN B1 - LESKE A1
Deviation from Target Usage
98%
5% - 7 Days
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Draw Down Rate
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Draw Down Rate
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Tank Detail
Draw Down Rate 7
Target Dosage (QPD) 220
Usage Rate with Deliverables 523.77
Calculated Dosage Rate 335.8
MCCURDY A1
Tank Detail Graph
Draw Down Rate

Eagle Ford (3)

Salt Creek (2)

RefinedKnowledge

Search

4

JS

Sites

My Sites

List View | Financials | Orders

Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (US
Devon	Eagle Ford	12	5	12 M	33.6 M
Oxy	Permian EOR West	12	5	12 M	33.6 M
Koch	East Texas	12	5	12 M	33.6 M
Murphy	East Texas	12	5	12 M	33.6 M
Anadarko	Great Natural But..	12	5	12 M	33.6 M
XTO	Midland TX	12	5	12 M	33.6 M
Noble Energy	Colorado	12	5	12 M	33.6 M
Anadarko	Salt Creek	12	5	12 M	33.6 M

All (9) | New (4) | Confirmed (2) | Resolved (3)

INDICATOR TYPE
Overall

21:06, June 7th, 2017
TANK MURPHY CT00-BSWP-P003-BRIGGS LEVEL LOW
Current Tank Level 34 Gal. Remaining time to refill is 36 hours.

16:11, June 6th, 2017
WELL MURPHY KONE 29 H INJECTION RATE LOW
Current Usage Rate 1.4 below Recommended Dosage 4.0 Quarts/Day.

18:11, June 6th, 2017
TANK AT RALPH-EDWARDS FACILITY
Current Tank Level 40 Gal. Remaing time to refill is 48 hours.

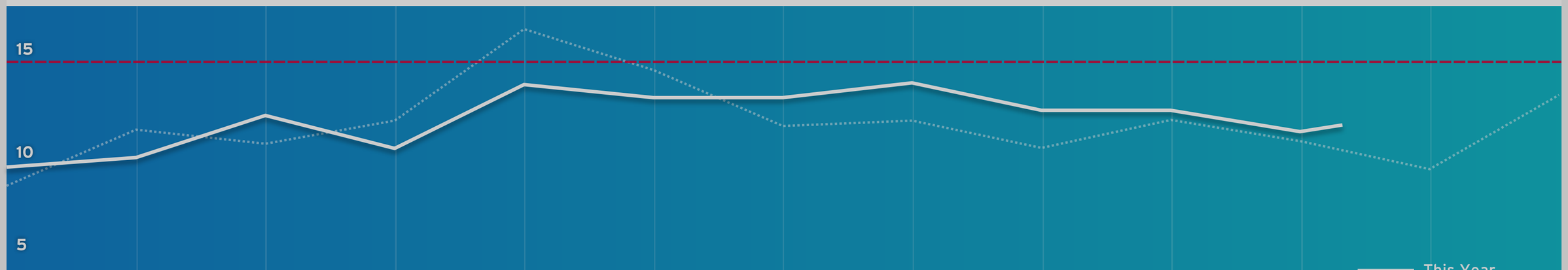
3:12, June 5th, 2017
TANK AT TC00-TLWP-P008-CARON UNIT B 4H-6H
Current Tank Level 8 Gal. Remaing time to refill is 2 hours.

23:04, June 3rd, 2017
WELL MURPHY TYLER 2
Current Usage Rate 2.3 below Recommended Dosage 6 Quarts/Day.

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes



RefinedKnowledge

Search

4

JS

Sites

My Sites

List View | Financials | Orders

Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (US
Devon	Eagle Ford	12	5	12 M	33.6 M
Oxy	Permian EOR West	12	5	12 M	33.6 M
Koch	East Texas	12	5	12 M	33.6 M
Murphy	East Texas	12	5	12 M	33.6 M
Anadarko	Great Natural But..	12	5	12 M	33.6 M
XTO	Midland TX	12	5	12 M	33.6 M
Noble Energy	Colorado	12	5	12 M	33.6 M
Anadarko	Salt Creek	12	5	12 M	33.6 M

All (9) | New (4) | Confirmed (2) | Resolved (3)

INDICATOR TYPE
Overall

21:06, June 7th, 2017
TANK MURPHY CT00-BSWP-P003-BRIGGS LEVEL LOW
Current Tank Level 34 Gal. Remaining time to refill is 36 hours.
Confirm

16:11, June 6th, 2017
WELL MURPHY KONE 29 H INJECTION RATE LOW
Current Usage Rate 1.4 below Recommended Dosage 4.0 Quarts/Day.

18:11, June 6th, 2017
TANK AT RALPH-EDWARDS FACILITY
Current Tank Level 40 Gal. Remaing time to refill is 48 hours.

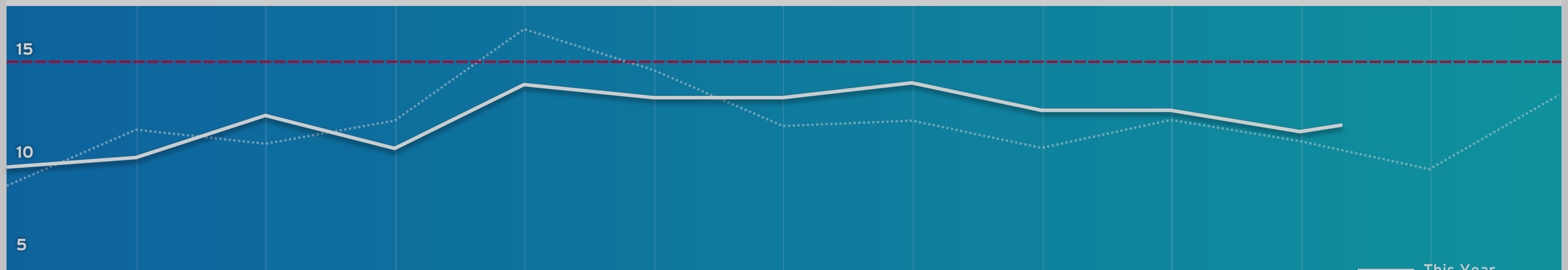
3:12, June 5th, 2017
TANK AT TC00-TLWP-P008-CARON UNIT B 4H-6H
Current Tank Level 8 Gal. Remaing time to refill is 2 hours.

23:04, June 3rd, 2017
WELL MURPHY TYLER 2
Current Usage Rate 2.3 below Recommended Dosage 6 Quarts/Day.

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes



RefinedKnowledge

Search

4

JS

Sites

My Sites

List View | Financials | Orders

Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (US
Devon	Eagle Ford	12	5	12 M	33.6 M
Oxy	Permian EOR West	12	5	12 M	33.6 M
Koch	East Texas	12	5	12 M	33.6 M
Murphy	East Texas	12	5	12 M	33.6 M
Anadarko	Great Natural But..	12	5	12 M	33.6 M
XTO	Midland TX	12	5	12 M	33.6 M
Noble Energy	Colorado	12	5	12 M	33.6 M
Anadarko	Salt Creek	12	5	12 M	33.6 M

All (9) | New (3) | Confirmed (3) | **Resolved (3)**

INDICATOR TYPE
Overall

21:06, June 7th, 2017
TANK MURPHY CT00-BSWP-P003-BRIGGS LEVEL LOW
Current Tank Level 34 Gal. Remaining time to refill is 36 hours.
Resolved ✓
10:06, June 8th, 2017

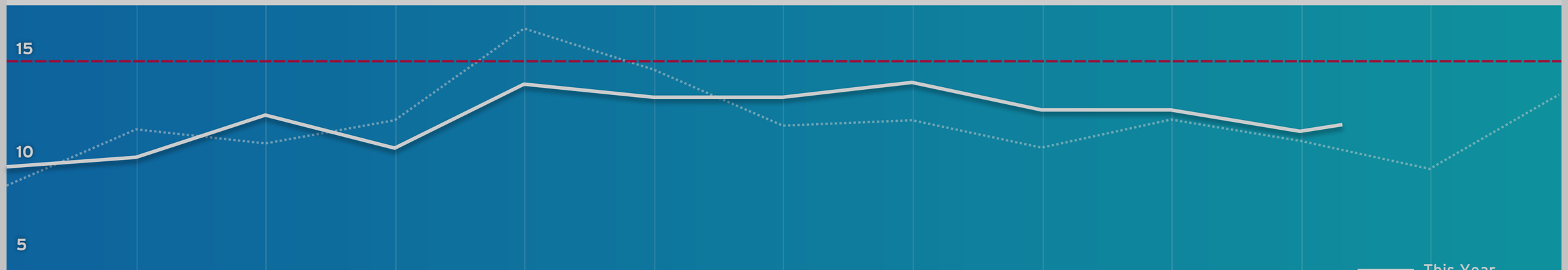
18:11, June 6th, 2017
TANK AT RALPH-EDWARDS FACILITY
Current Tank Level 40 Gal. Remaing time to refill is 48 hours.
Resolved ✓
20:45, June 6th, 2017

3:12, June 5th, 2017
TANK AT TC00-TLWP-P008-CARON UNIT B 4H-6H
Current Tank Level 8 Gal. Remaing time to refill is 2 hours.
Resolved ✓
6:00, June 5th, 2017

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes



RefinedKnowledge

Search

4

JS

Sites

My Sites

List View | Financials | Orders

Customer	Site Name	Safety Incidents	Near Misses	Products Delivered (Gal)	Products Delivered (US
Devon	Eagle Ford	12	5	12 M	33.6 M
Oxy	Permian EOR West	12	5	12 M	33.6 M
Koch	East Texas	12	5	12 M	33.6 M
Murphy	East Texas	12	5	12 M	33.6 M
Anadarko	Great Natural But..	12	5	12 M	33.6 M
XTO	Midland TX	12	5	12 M	33.6 M
Noble Energy	Colorado	12	5	12 M	33.6 M
Anadarko	Salt Creek	12	5	12 M	33.6 M

All (9) | New (3) | Confirmed (3) | **Resolved (3)**

INDICATOR TYPE
Overall

21:06, June 7th, 2017
TANK MURPHY CT00-BSWP-P003-BRIGGS LEVEL LOW
Current Tank Level 34 Gal. Remaining time to refill is 36 hours.
Resolved ✓
10:06, June 8th, 2017

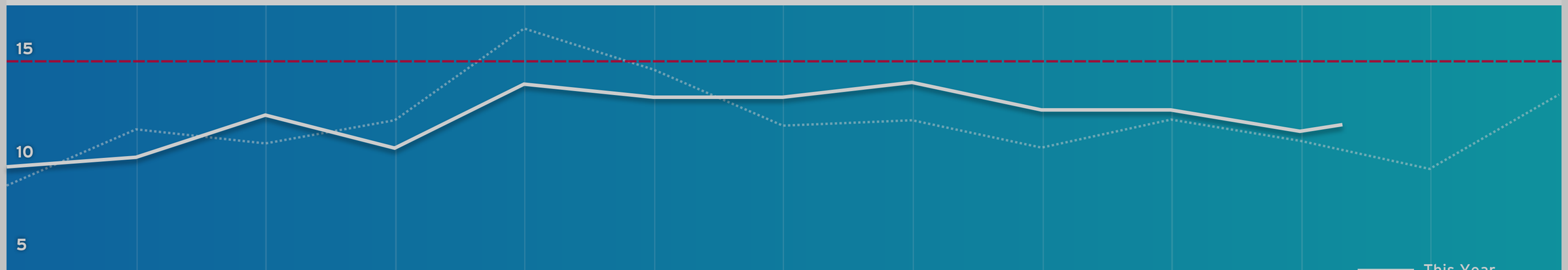
18:11, June 6th, 2017
TANK AT RALPH-EDWARDS FACILITY
Current Tank Level 40 Gal. Remaing time to refill is 48 hours.
R
20
Delete

3:12, June 5th, 2017
TANK AT TC00-TLWP-P008-CARON UNIT B 4H-6H
Current Tank Level 8 Gal. Remaing time to refill is 2 hours.
Resolved ✓
6:00, June 5th, 2017

Trends

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

All | Salt Creek | Great Natural Buttes



Asset Tree Landing

Asset Tree

VIEW GRAPHS BY
Year To Date

VIEW SITES BY
Most Recently Edited

Sites

Search Sites

Customize

Favorites

Eagle Ford

DEVON

128 Assets

120 Active
4 Inactive
4 Temp Suspended

✓ Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Permian EOR West

OXY

42 Assets

26 Active
9 Inactive
6 Temp Suspended

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

East Texas

KOCH

238 Assets

201 Active
30 Inactive
7 Temp Suspended

✓ Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

East Texas

MURPHY

99 Assets

99 Active
0 Inactive
0 Temp Suspended

✓ Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Great Natural Buttes

ANADARKO

197 Assets

172 Active
20 Inactive
5 Temp Suspended

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Asset Tree

VIEW GRAPHS BY
Year To Date

VIEW SITES BY
Most Recently Edited

Sites

Search Sites

Customize

Favorites

Eagle Ford

DEVON

128 Assets

120 Active
4 Inactive
4 Temp Suspended

Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Permian EOR West

OXY

42 Assets

26 Active
9 Inactive
6 Temp Suspended

50% Configured

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

East Texas

KOCH

238 Assets

201 Active
30 Inactive
7 Temp Suspended

Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

East Texas

MURPHY

99 Assets

99 Active
0 Inactive
0 Temp Suspended

Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Great Natural Buttes

ANADARKO

197 Assets

172 Active
20 Inactive
5 Temp Suspended

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

RefinedKnowledge

Search

4

JS

Asset Tree

VIEW GRAPHS BY
Year To Date

VIEW SITES BY
Most Recently Edited

- Editor
- Customer Name
- Most Recently Edited ✓
- Site Name

Sites

Search Sites

Eagle Ford

DEVON

128 Assets

120 Active
4 Inactive
4 Temp Suspended

✓ Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Permian EOR West

OXY

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26 Active
9 Inactive
6 Temp Suspended

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View

East Texas

KOCH

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30 Inactive
7 Temp Suspended

✓ Assets accounted for

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View

East Texas

99 Assets

99 Active
0 Inactive
0 Temp Suspended

✓ Assets accounted for

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View

Great Natural Buttes

ANADARKO

197 Assets

172 Active
20 Inactive
5 Temp Suspended

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

RefinedKnowledge

Search

9

JS

Asset Tree

VIEW GRAPHS BY Year To Date

VIEW SITES BY Most Recently Edited

Sites

Search Sites

Customize

Favorites

Eagle Ford

DEVON

128 Assets

120 Active
4 Inactive
4 Temp Suspended

Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Great Natural Buttes

ANADARKO

197 Assets

172 Active
20 Inactive
5 Temp Suspended

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View

East Texas

MURPHY

99 Assets

99 Active
0 Inactive
0 Temp Suspended

Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Filter Sites

VIEW ONLY SELECTED GLOBAL REGIONS CLEAR

- [ ] NA
- [ ] MEA
- [ ] LA
- [x] AP
- [x] UE

VIEW ONLY SELECTED SALES REGIONS

- [x] Spare 1
- [x] Spare 2
- [x] Spare 3

VIEW ONLY SELECTED DISTRICTS

- [x] Spare 1
- [ ] Spare 2
- [ ] Spare 3

Cancel

Save

Asset Tree

VIEW GRAPHS BY
Year To Date

VIEW SITES BY
Most Recently Edited

Sites

Search Sites

6 Customize

Favorites

Eagle Ford

DEVON

128 Assets

120 Active
4 Inactive
4 Temp Suspended

Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Permian EOR West

OXY

42 Assets

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9 Inactive
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East Texas

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View

RefinedKnowledge

Search

4

JS

Asset Tree

VIEW GRAPHS BY
Year To Date

VIEW SITES BY
Most Recently Edited

Sites

Search Sites

Customize

Favorites

Eagle Ford

DEVON

128
Assets

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4 Inactive
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Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

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East Texas

KOCH

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View

RefinedKnowledge

Search

4

JS

Asset Tree

VIEW GRAPHS BY
Year To Date

VIEW SITES BY
Most Recently Edited

Sites

Ea

Customize

Favorites

Eagle Ford

DEVON

128
Assets

120 Active
4 Inactive
4 Temp Suspended

Assets accounted for

Last edited by: Mike J. 2:30 PM, 07-07-2017

View

Asset Tree Build

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Get started by adding an area and an unit

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

+ New Route/Area

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Get started by adding an area and an unit

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

Asset Tree

All assets accounted for

+ New Route/Area

Add a new route or area

NAME

Provide a unique name for the area

Special characters (* ? ; { } [ ] | \ ` ' "), leading or tailing spaces not allowed. Name is limited to 259 characters.

Cancel

Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

Asset Tree

All assets accounted for

+ New Route/Area

Add a new route or area

ROUTE / AREA NAME — Entered name is already in use. Please try again.

Concrete

Special characters (* ? ; { } [ ] | \ ` ' "), leading or tailing spaces not allowed. Name is limited to 259 characters.

Cancel | Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

Asset Tree

All assets accounted for

+ New Route/Area

Add a new route or area

NAME

Concrete A

Special characters (* ? ; { } [ ] | \ ` ' "), leading or tailing spaces not allowed. Name is limited to 259 characters.

Cancel | Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

Eagle Ford

DEVON

Asset Tree

All assets accounted for

- Concrete A

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

Concrete A

Concrete B

Yorktown A

Yorktown B

Westhoff A

Westhoff B

Northeim A

Northeim B

+ New Pad/Lease/Unit

Asset Tree

All assets accounted for

Concrete A

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

Asset Tree

All assets accounted for

- Concrete A
  - + New Pad/Lease/Unit

Add a new pad, lease, or unit

NAME

BUCHHORN B 1 - LESKE A 1

Special characters (* ? ; { } [ ] | \ ` ' "), leading or tailing spaces not allowed. Name is limited to 259 characters.

Cancel | Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

- Concrete A
- Concrete B
- Yorktown A
- Yorktown B
- Westhoff A
- Westhoff B
- Northeim A
- Northeim B

Eagle Ford

DEVON

Asset Tree

All assets accounted for

- Concrete A
  - BUCHHORN B 1 - LESKE A 1

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Pipeline
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- LESKE A #1H

J-HERMANN A 1 - C 1 - D 1

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Pipeline

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- LESKE A #1H

J-HERMANN A 1 - C 1 - D 1

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

(BFW)

- C 1 - D 1

Add a new asset

ASSET NAME

Ingleside 16 inch

Special characters (* ? ; { } [ ] | \ ` ' "), leading or tailing spaces not allowed. Name is limited to 259 characters.

Cancel | Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Pipeline
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- LESKE A #1H
- INGLESIDE 16 INCH

J-HERMANN A 1 - C 1 - D 1

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree

Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

All assets accounted for

+ New Route/Area

Concrete A

Battery

Pipeline

Tank

Vessel

Well

Spare 1

Spare 2

Spare 3

Concrete B

Yorktown A

SKE A 1

- D 1

Add Tank

AREA

Select

UNIT

Select

QUANTITY

1

ASSET NAME

Provide a unique name for the asset

Special characters (* ? ; { } [ ] | \ ` ' "), leading or tailing spaces not allowed.
Name is limited to 259 characters.

Cancel

Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree

Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

All assets accounted for

+ New Route/Area

Concrete A

Battery

Pipeline

Tank

Vessel

Well

Spare 1

Spare 2

Spare 3

Concrete B

Yorktown A

SKE A 1

- D 1

Add Tank

AREA

Concrete A

UNIT

Tank

QUANTITY

3

ASSET NAME

Provide a unique name for the asset

ASSET NAME

Provide a unique name for the asset

ASSET NAME

Provide a unique name for the asset

Cancel

Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree

Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

All assets accounted for

+ New Route/Area

Concrete A

Battery

Pipeline

Tank

Vessel

Well

Spare 1

Spare 2

Spare 3

Concrete B

Yorktown A

SKE A 1

- D 1

Add Tank

AREA

Concrete A

UNIT

Tank

QUANTITY

1

ASSET NAME

J-HERMANN B 1

Special characters (* ? ; { } [ ] | \ ` ' "), leading or tailing spaces not allowed.
Name is limited to 259 characters.

Cancel

Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Pipeline
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- LESKE A #1H
- INGLESIDE 16 INCH

J-HERMANN A 1 - C 1 - D 1

J-HERMANN B 1

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Pipeline
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- LESKE A #1H
- INGLESIDE 16 INCH
- BUCHHORN B 2H
- BUCHHORN B 3H
- LESKE A #2H
- LESKE A #3H

J-HERMANN A 1 - C 1 - D 1

J-HERMANN B 1

- LESKE A #2H

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Pipeline
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- BUCHHORN B 3H
- LESKE A #2H
- LESKE A #3H

J-HERMANN A 1 - C 1 - D 1

Unit Title

- LESKE A #2H

Do you want to save changes made to Eagle Ford?

Changes will be lost if you do not save them.

Don't Save | Cancel | Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Pipeline
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Eagle Ford

DEVON

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- LESKE A #1H
- INGLESIDE 16 INCH
- BUCHHORN B 2H
- BUCHHORN B 3H
- LESKE A #2H
- LESKE A #3H

J-HERMANN A 1 - C 1 - D 1

J-HERMANN B 1

- LESKE A #2H

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford

DEVON

To add, drag and drop from the Library to the Asset Tree or click to add multiple.

Asset Type Library

Search Asset Types

+ New Route/Area

+ New Pad/Lease/Unit

Concrete A

- Battery
- Pipeline
- Tank
- Vessel
- Well
- Spare 1
- Spare 2
- Spare 3

Concrete B

Yorktown A

Asset Tree

All assets accounted for

Concrete A

BUCHHORN B 1 - LESKE A 1

BUCHHORN B 1H

(BFW)

- C 1 - D 1

J-HERMANN B 1

You have been inactive for 15 minutes. Would you like to continue editing this Asset Tree?

Unsaved changes will be lost.

Close Asset Tree

Continue Editing

Asset Tree Configure

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - BUCHHORN B 1H
    - LESKE A #1H
    - INGLESIDE 16 INCH
    - BUCHHORN B 2H
    - BUCHHORN B 3H
    - LESKE A #2H
    - LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

Select Asset(s) to Configure

Confirm Properties & Load Plan

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

Concrete A

BUCHHORN B 1 - LESKE A 1

- BUCHHORN B 1H
- LESKE A #1H
- INGLESIDE 16 INCH
- BUCHHORN B 2H
- BUCHHORN B 3H
- LESKE A #2H
- LESKE A #3H

J-HERMANN A 1 - C 1 - D 1

J-HERMANN B 1

- J-HERMANN B #1H

BY STATUS

- All ✓
- In Progress
- Configured
- Inactive
- Active
- Temporarily Suspended

BY TYPE

- Wells
- Tanks

Asset Properties

Apply Existing Configuration

Select Asset(s) to Configure

Confirm Properties & Load Plan

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

PRODUCT: Active	PRODUCT DETAIL: Buchhorn B 2H Tank Detail
CURRENT TANK INVENTORY: 2496966	PRODUCT NUMBER: CORR10588A
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Clear All Properties

✓ Properties Confirmed

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

- BUCHHORN B 1H
- J-HERMANN A #1H
- MCCURDY A 1
- MUIR A 2H

PRODUCT: Active	PR
CURRENT TANK INVENTORY: 2496966	PR
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Clear All Properties

✓ Properties Confirmed

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration: J-HERMANN A #1H

- BUCHHORN B 1H
- J-HERMANN A #1H ✓
- MCCURDY A 1
- MUIR A 2H

PRODUCT: Active	PR
CURRENT TANK INVENTORY: 2496966	PR
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Clear All Properties

✓ Properties Confirmed

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration: J-HERMANN A #1H

PRODUCT: Active	PRODUCT DETAIL: Buchhorn B 2H Tank Detail
CURRENT TANK INVENTORY: 2496966	PRODUCT NUMBER: CORR10588A
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Clear All Properties | Confirm Properties & Load Plan

Asset Tree has been saved.

Close | Build Asset Tree | Configure Assets | Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

PRODUCT: Active	PRODUCT DETAIL: Buchhorn B 2H Tank Detail
CURRENT TANK INVENTORY: 2496966	PRODUCT NUMBER: CORR10588A
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Confirm Properties & Load Plan

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurements — Batch Edit Limits

Active	Measurement Name	Description	Measurement Category	Indicator	Frequency	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
✓	Conductivity	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Bi-Weekly	us/cm	0	3800	4300	5400	08/08/2017
✓	Iron	No Description	BPGA	-	Bi-Weekly	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Maecenas nisi leo, gravida...	Optional	Monitor	Bi-Weekly	ppm	150	300	450	700	07/22/2017
✓	Sulfite	Olor sit amet ipsum lor sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	10	40	50	50	08/08/2017
✓	OH Alkalinity	Lorem ipsum olor sit amet sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	200	200	350	400	08/08/2017
✓	P Alka	Description	BPGA	Monitor	Bi-Weekly	ppm	10	11	14	16	08/08/2017
✓	Lab pH	Maecenas nisi leo, gravida...	BPGA	Monitor	Bi-Weekly	pH	-	150	200	225	08/08/2017
✓	Sulfite	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Weekly	us/cm	150	30	35	45	04/01/2017
✓	OH Alkalinity	Description	BPGA	KCl	Weekly	pH	150	75	80	95	07/22/2017
✓	Iron	Maecenas nisi leo, gravida...	Optional	Iron	Weekly	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommended | [x] Mark asset as fully configured | Save Service Plan

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Naperville 42 Assets (21 Configured - 21 In progress)

OCLAN

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

PRODUCT: Active	PRODUCT DETAIL: Buchhorn B 2H Tank Detail
CURRENT TANK INVENTORY: 2496966	PRODUCT NUMBER: CORR10588A
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Confirm Properties & Load Plan

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurements

Batch Edit Limits

Active	Measurement Name	Description	Measurement Category	Indicator	Frequency	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
✓	Conductivity	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Bi-Weekly	us/cm	0	3800	4300	5400	08/08/2017
✓	Iron	No Description	BPGA	-	Bi-Weekly	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Maecenas nisi leo, gravida...	Optional	Monitor	Bi-Weekly	ppm	150	300	450	700	07/22/2017
✓	Sulfite	Olor sit amet ipsum lor sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	10	40	50	50	08/08/2017
✓	OH Alkalinity	Lorem ipsum olor sit amet sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	200	200	350	400	08/08/2017
✓	P Alka	Description	BPGA	Monitor	Bi-Weekly	ppm	10	11	14	16	08/08/2017
✓	Lab pH	Maecenas nisi leo, gravida...	BPGA	Monitor	Bi-Weekly	pH	-	150	200	225	08/08/2017
✓	Sulfite	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Weekly	us/cm	150	30	35	45	04/01/2017
✓	OH Alkalinity	Description	BPGA	KCl	Weekly	pH	150	75	80	95	07/22/2017
✓	Iron	Maecenas nisi leo, gravida...	Optional	Iron	Weekly	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommended | [x] Mark asset as fully configured | Save Service Plan

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] Ingleside 16 inch
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
- J-HERMANN A 1 - C 1 - D 1
- J-HERMANN B 1
  - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

ASSET STATUS: Active	SALES REPRESENTATIVE: Brent Walsh
CONTROLLER NAME: 3DTBLR	SERIAL NUMBER: 000000
SHIP TO NUMBER: 100004567	PRESSURE RANGE: 0-300 psi
MAKEUP WATER TYPE: Softened	FEED SOURCE: PAC-2 Boiler Feed Water (BFW)
BOILER EFFECIENCY: 80%	HEAT RECOVERY EFFICIENCY: 70 °F
BLOWDOWN HEAT RECOVERY: FALSE	CONDENSATE RETUREN PERCENTAGE: 0%
OPERATING DAYS PER YEAR: 365 d	OPERATING PRESSURE: 150 psig
STEAM FLOW	TARGET CYCLES

Clear All Properties | ✓ Properties Confirmed

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurements

Batch Edit Limits

Active	Measurement Name	Description	Measurement Category	Indicator	Frequency	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
☑	Conductivity	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Bi-Weekly	us/cm	0	3800	4300	5400	08/08/2017
☑	Iron	No Description	BPGA	-	Bi-Weekly	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Maecenas nisi leo, gravida...	Optional	Monitor	Bi-Weekly	ppm	150	300	450	700	07/22/2017
☑	Sulfite	Olor sit a				ppm	10	40	50	50	08/08/2017
☑	OH Alkalinity	Lorem ip				ppm	200	200	350	400	08/08/2017
☑	P Alka	Descript				ppm	10	11	14	16	08/08/2017
☑	Lab pH	Maecena				pH	-	150	200	225	08/08/2017
☑	Sulfite	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Weekly	us/cm	150	30	35	45	04/01/2017
☑	OH Alkalinity	Description	BPGA	KCl	Weekly	pH	150	75	80	95	07/22/2017
☑	Iron	Maecenas nisi leo, gravida...	Optional	Iron	Weekly	us/cm	10	20	30	45	08/08/2017

Revert to Recommended

Unsaved changes will be lost.

Cancel | Confirm

Add Custom Measurement | Revert To Recommended | ☑ Mark asset as fully configured | Save Service Plan

RefinedKnowledge

Search

Close | Build Asset Tree | Configure Assets | Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] Ingleside 16 inch
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

ASSET STATUS: Active	SALES REPRESENTATIVE: Brent Walsh
CONTROLLER NAME: 3DTBLR	SERIAL NUMBER: 000000
SHIP TO NUMBER: 100004567	PRESSURE RANGE: 0-300 psi
MAKEUP WATER TYPE: Softened	FEED SOURCE: PAC-2 Boiler Feed Water (BFW)
BOILER EFFECIENCY: 80%	HEAT RECOVERY EFFICIENCY: 70 °F
BLOWDOWN HEAT RECOVERY: FALSE	CONDENSATE RETUREN PERCENTAGE: 0%
OPERATING DAYS PER YEAR: 365 d	OPERATING PRESSURE: 150 psig
STEAM FLOW	TARGET CYCLES

Clear All Properties | ✓ Properties Confirmed

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurem

Batch Edit Limits

Active	Measurement Name	Des	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
☑	Conductivity	Lor	us/cm	0	3800	4300	5400	08/08/2017
☑	Iron	No	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Ma	ppm	150	300	450	700	07/22/2017
☑	Sulfite	Olo	ppm	10	40	50	50	08/08/2017
☑	OH Alkalinity	Lor	ppm	200	200	350	400	08/08/2017
☑	P Alka	Des	ppm	10	11	14	16	08/08/2017
☑	Lab pH	Ma	pH	-	150	200	225	08/08/2017
☑	Sulfite	Lor	us/cm	150	30	35	45	04/01/2017
☑	OH Alkalinity	Des	pH	150	75	80	95	07/22/2017
☑	Iron	Ma	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommer | Mark asset as fully configured | Save Service Plan

Batch Edit Limits by Type

[Text explaining one can edit the limits for measurements based on their Base Measurement - also referred to as their Measurement Type]

BASE MEASUREMENT: pH

5 Measurements in this service plan, are based on a pH base measurement.

LOW: 6.6 ✓

HIGH: 6.3

Cancel | Save

RefinedKnowledge

Search

Close | Build Asset Tree | Configure Assets | Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] Ingleside 16 inch
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

ASSET STATUS: Active	SALES REPRESENTATIVE: Brent Walsh
CONTROLLER NAME: 3DTBLR	SERIAL NUMBER: 000000
SHIP TO NUMBER: 100004567	PRESSURE RANGE: 0-300 psi
MAKEUP WATER TYPE: Softened	FEED SOURCE: PAC-2 Boiler Feed Water (BFW)
BOILER EFFECIENCY: 80%	HEAT RECOVERY EFFICIENCY: 70 °F
BLOWDOWN HEAT RECOVERY: FALSE	CONDENSATE RETUREN PERCENTAGE: 0%
OPERATING DAYS PER YEAR: 365 d	OPERATING PRESSURE: 150 psig
STEAM FLOW	TARGET CYCLES

Clear All Properties | ✓ Properties Confirmed

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurem

Batch Edit Limits

Active	Measurement Name	Des	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
[x]	Conductivity	Lor	us/cm	0	3800	4300	5400	08/08/2017
[x]	Iron	No	ppm	-	-	0.05	0.5	08/08/2017
[ ]	M-Alkalinity	Ma	ppm	150	300	450	700	07/22/2017
[x]	Sulfite	Olo	ppm	10	40	50	50	08/08/2017
[x]	OH Alkalinity	Lor	ppm	200	200	350	400	08/08/2017
[x]	P Alka	Des	ppm	10	11	14	16	08/08/2017
[x]	Lab pH	Ma	pH	-	150	200	225	08/08/2017
[x]	Sulfite	Lor	us/cm	150	30	35	45	04/01/2017
[x]	OH Alkalinity	Des	pH	150	75	80	95	07/22/2017
[x]	Iron	Ma	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommer | Mark asset as fully configured | Save Service Plan

Batch Edit Limits by Type

[Text explaining one can edit the limits for measurements based on their Base Measurement - also referred to as their Measurement Type]

BASE MEASUREMENT: pH

5 Measurements in this service plan, are based on a pH base measurement.

LOW: 6.0

HIGH: 6.3

Cancel | Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

ASSET TREE

Naperville 42 Assets (21 Configured - 21 In progress)

OCLAN

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - Utility — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] CT (pH 8.2-9.0)
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

PRODUCT: Active	PRODUCT DETAIL: Buchhorn B 2H Tank Detail
CURRENT TANK INVENTORY: 2496966	PRODUCT NUMBER: CORR10588A
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Confirm Properties & Load Plan

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurements

Batch Edit Limits

Active	Measurement Name	Description	Measurement Category	Indicator	Frequency	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
☑	Conductivity	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Bi-Weekly	us/cm	0	3800	4300	5400	08/08/2017
☑	Iron	No Description	BPGA	-	Bi-Weekly	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Maecenas nisi leo, gravida...	Optional	Monitor	Bi-Weekly	ppm	150	300	450	700	07/22/2017
☑	Sulfite	Olor sit amet ipsum lor sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	10	40	50	50	08/08/2017
☑	OH Alkalinity	Lorem ipsum olor sit amet sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	200	200	350	400	08/08/2017
☑	P Alka	Description	BPGA	Monitor	Bi-Weekly	ppm	10	11	14	16	08/08/2017
☑	Lab pH	Maecenas nisi leo, gravida...	BPGA	Monitor	Bi-Weekly	pH	-	150	200	225	08/08/2017
☑	Sulfite	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Weekly	us/cm	150	30	35	45	04/01/2017
☑	OH Alkalinity	Description	BPGA	KCl	Weekly	pH	150	75	80	95	07/22/2017
☑	Iron	Maecenas nisi leo, gravida...	Optional	Iron	Weekly	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommended

☑ Mark asset as fully configured

Save Service Plan

Service Plan has been Saved

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

PRODUCT: Active	PRODUCT DETAIL: Buchhorn B 2H Tank Detail
CURRENT TANK INVENTORY: 2496966	PRODUCT NUMBER: CORR10588A
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Confirm Properties & Load Plan

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurements

Batch Edit Limits

Active	Measurement Name	Description	Measurement Category	Indicator	Frequency	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
☑	Conductivity	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Bi-Weekly	us/cm	0	3800	4300	5400	08/08/2017
☑	Iron	No Description	BPGA	-	Bi-Weekly	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Maecenas nisi leo, gravida...	Optional	Monitor	Bi-Weekly	ppm	150	300	450	700	07/22/2017
☑	Sulfite	Olor sit amet ipsum lor sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	10	40	50	50	08/08/2017
☑	OH Alkalinity	Lorem ipsum olor sit amet sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	200	200	350	400	08/08/2017
☑	P Alka	Description	BPGA	Monitor	Bi-Weekly	ppm	10	11	14	16	08/08/2017
☑	Lab pH	Maecenas nisi leo, gravida...	BPGA	Monitor	Bi-Weekly	pH	-	150	200	225	08/08/2017
☑	Sulfite	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Weekly	us/cm	150	30	35	45	04/01/2017
☑	OH Alkalinity	Description	BPGA	KCl	Weekly	pH	150	75	80	95	07/22/2017
☑	Iron	Maecenas nisi leo, gravida...	Optional	Iron	Weekly	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommended | ☑ Mark asset as fully configured | Save Service Plan

RefinedKnowledge

Search

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] Ingleside 16 inch
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

ASSET STATUS: Active	SALES REPRESENTATIVE: Brent Walsh
CONTROLLER NAME: 3DTBLR	SERIAL NUMBER: 000000
SHIP TO NUMBER: 100004567	PRESSURE RANGE: 0-300 psi
MAKEUP WATER TYPE: Softened	FEED SOURCE: PAC-2 Boiler Feed Water (BFW)
BOILER EFFECIENCY: 80%	HEAT RECOVERY EFFICIENCY: 70 °F
BLOWDOWN HEAT RECOVERY: FALSE	CONDENSATE RETUREN PERCENTAGE: 0%
OPERATING DAYS PER YEAR: 365 d	OPERATING PRESSURE: 150 psig
STEAM FLOW	TARGET CYCLES

Clear All Properties | ✓ Properties Confirmed

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurem

Batch Edit Limits

Active	Measurement Name	Des	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
[x]	Conductivity	Lor	us/cm	0	3800	4300	5400	08/08/2017
[x]	Iron	No	ppm	-	-	0.05	0.5	08/08/2017
[ ]	M-Alkalinity	Ma	ppm	150	300	450	700	07/22/2017
[x]	Sulfite	Olo	ppm	10	40	50	50	08/08/2017
[x]	OH Alkalinity	Lor	ppm	200	200	350	400	08/08/2017
[x]	P Alka	Des	ppm	10	11	14	16	08/08/2017
[x]	Lab pH	Ma	pH	-	150	200	225	08/08/2017
[x]	Sulfite	Lor	us/cm	150	30	35	45	04/01/2017
[x]	OH Alkalinity	Des	pH	150	75	80	95	07/22/2017
[x]	Iron	Ma	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommen | Mark asset as fully configured | Save Service Plan

OH Alkalinity

DESCRIPTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ut malesuada libero, quis semper massa. Sed eu ultrices lorem. Nulla aliquam sapien eu nisi vehicula, sit amet commodo dolor dapibus. Mauris cursus velit quis semper semper. Morbi feugiat eget diam et feugiat. Sed id maximus elit, vitae consequat sapien. Donec et libero non justo maximus fringilla. Donec ut hendrerit neque. Duis eu metus porttitor est pellentesque varius non id sem. Nulla a augue nulla. Suspendisse pharetra purus mauris, sed consequat urna lacinia a. Vestibulum velit nulla, efficitur ut ex nec, tincidunt tempor ligula.

Click to add additional description...

Limit 500 characters

Cancel | Save

RefinedKnowledge

Search

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] Ingleside 16 inch
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

ASSET STATUS: Active	SALES REPRESENTATIVE: Brent Walsh
CONTROLLER NAME: 3DTBLR	SERIAL NUMBER: 000000
SHIP TO NUMBER: 100004567	PRESSURE RANGE: 0-300 psi
MAKEUP WATER TYPE: Softened	FEED SOURCE: PAC-2 Boiler Feed Water (BFW)
BOILER EFFECIENCY: 80%	HEAT RECOVERY EFFICIENCY: 70 °F
BLOWDOWN HEAT RECOVERY: FALSE	CONDENSATE RETUREN PERCENTAGE: 0%
OPERATING DAYS PER YEAR: 365 d	OPERATING PRESSURE: 150 psig
STEAM FLOW	TARGET CYCLES

Clear All Properties | ✓ Properties Confirmed

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurem

Batch Edit Limits

Active	Measurement Name	Des	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
[x]	Conductivity	Lor	us/cm	0	3800	4300	5400	08/08/2017
[x]	Iron	No	ppm	-	-	0.05	0.5	08/08/2017
[ ]	M-Alkalinity	Ma	ppm	150	300	450	700	07/22/2017
[x]	Sulfite	Olo	ppm	10	40	50	50	08/08/2017
[x]	OH Alkalinity	Lor	ppm	200	200	350	400	08/08/2017
[x]	P Alka	Des	ppm	10	11	14	16	08/08/2017
[x]	Lab pH	Ma	pH	-	150	200	225	08/08/2017
[x]	Sulfite	Lor	us/cm	150	30	35	45	04/01/2017
[x]	OH Alkalinity	Des	pH	150	75	80	95	07/22/2017
[x]	Iron	Ma	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommen | Mark asset as fully configured | Save Service Plan

OH Alkalinity

DESCRIPTION

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nunc ut malesuada libero, quis semper massa. Sed eu ultrices lorem. Nulla aliquam sapien eu nisi vehicula, sit amet commodo dolor dapibus. Mauris cursus velit quis semper semper. Morbi feugiat eget diam et feugiat. Sed id maximus elit, vitae consequat sapien. Donec et libero non justo maximus fringilla. Donec ut hendrerit neque. Duis eu metus porttitor est pellentesque varius non id sem. Nulla a augue nulla. Suspendisse pharetra purus mauris, sed consequat urna lacinia a. Vestibulum velit nulla, efficitur ut ex nec, tincidunt tempor ligula.

Nulla cursus mi erat, nec hendrerit odio mollis ut. Etiam non vulputate elit. Ut vel arcu ac nulla feugiat iaculis id et velit. Curabitur velit purus, finibus ac iaculis ut, malesuada eget eros. Curabitur vel ex nec sem auctor fermentum eget consectetur dui. Nam a turpis volutpat.

Limit 300 characters

Cancel | Save

RefinedKnowledge

Search

4

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] INGLESIDE 16 INCH
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

PRODUCT: Active	PRODUCT DETAIL: Buchhorn B 2H Tank Detail
CURRENT TANK INVENTORY: 2496966	PRODUCT NUMBER: CORR10588A
HI LIMIT: 374.4	LO LIMIT: 223.64
VALUE (QPD): 7	TARGET DOSAGE (QPD): 220
USAGE RATE WITH DELIVERIES (US GAL/DAY): 532.77	CALCULATED DOSAGE RATE (US GAL/DAY): 200
BATTERY VOLTAGE: 3.6	FIRMWARE VERSION: 1.03.002
LATITUDE: 27.827	LONGITUDE: -97.199
FIELD LABEL	FIELD LABEL

Confirm Properties & Load Plan

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurements

Batch Edit Limits

Active	Measurement Name	Description	Measurement Category	Indicator	Frequency	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
☑	Conductivity	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Bi-Weekly	us/cm	0	3800	4300	5400	08/08/2017
☑	Iron	No Description	BPGA	-	Bi-Weekly	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Maecenas nisi leo, gravida...	Optional	Monitor	Bi-Weekly	ppm	150	300	450	700	07/22/2017
☑	Sulfite	Olor sit amet ipsum lor sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	10	40	50	50	08/08/2017
☑	OH Alkalinity	Lorem ipsum olor sit amet sit amet ...	BPGA	Monitor	Bi-Weekly	ppm	200	200	350	400	08/08/2017
☑	P Alka	Description	BPGA	Monitor	Bi-Weekly	ppm	10	11	14	16	08/08/2017
☑	Lab pH	Maecenas nisi leo, gravida...	BPGA	Monitor	Bi-Weekly	pH	-	150	200	225	08/08/2017
☑	Sulfite	Lorem ipsum olor sit amet sit amet ...	BPGA	KCl	Weekly	us/cm	150	30	35	45	04/01/2017
☑	OH Alkalinity	Description	BPGA	KCl	Weekly	pH	150	75	80	95	07/22/2017
☑	Iron	Maecenas nisi leo, gravida...	Optional	Iron	Weekly	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommended | ☑ Mark asset as fully configured | Save Service Plan

RefinedKnowledge

Search

JS

Close

Build Asset Tree | Configure Assets

Save

Eagle Ford 42 Assets (21 Configured - 21 In progress)

DEVON

Asset Tree

Collapse All | Expand All | View All

- Concrete A
  - BUCHHORN B 1 - LESKE A 1 — Select All
    - [ ] BUCHHORN B 1H
    - [ ] LESKE A #1H
    - [ ] Ingleside 16 inch
    - [x] BUCHHORN B 2H
    - [ ] BUCHHORN B 3H
    - [ ] LESKE A #2H
    - [ ] LESKE A #3H
  - J-HERMANN A 1 - C 1 - D 1
  - J-HERMANN B 1
    - [ ] J-HERMANN B #1H

Asset Properties

Apply Existing Configuration

ASSET STATUS: Active	SALES REPRESENTATIVE: Brent Walsh
CONTROLLER NAME: 3DTBLR	SERIAL NUMBER: 000000
SHIP TO NUMBER: 100004567	PRESSURE RANGE: 0-300 psi
MAKEUP WATER TYPE: Softened	FEED SOURCE: PAC-2 Boiler Feed Water (BFW)
BOILER EFFECIENCY: 80%	HEAT RECOVERY EFFICIENCY: 70 °F
BLOWDOWN HEAT RECOVERY: FALSE	CONDENSATE RETUREN PERCENTAGE: 0%
OPERATING DAYS PER YEAR: 365 d	OPERATING PRESSURE: 150 psig
STEAM FLOW	TARGET CYCLES

Clear All Properties | ✓ Properties Confirmed

CT (pH 8.2-9.0) Service Plan

100% BPGA - 37 / 37 Recommended Measurem

Batch Edit Limits

Active	Measurement Name	Des	Unit of Meas.	Low/ Low	Low	High	High/ High	Limits Effective Date
☑	Conductivity	Lor	us/cm	0	3800	4300	5400	08/08/2017
☑	Iron	No	ppm	-	-	0.05	0.5	08/08/2017
☐	M-Alkalinity	Ma	ppm	150	300	450	700	07/22/2017
☑	Sulfite	Olo	ppm	10	40	50	50	08/08/2017
☑	OH Alkalinity	Lor	ppm	200	200	350	400	08/08/2017
☑	P Alka	Des	ppm	10	11	14	16	08/08/2017
☑	Lab pH	Ma	pH	-	150	200	225	08/08/2017
☑	Sulfite	Lor	us/cm	150	30	35	45	04/01/2017
☑	OH Alkalinity	Des	pH	150	75	80	95	07/22/2017
☑	Iron	Ma	us/cm	10	20	30	45	08/08/2017

Add Custom Measurement | Revert To Recommen | Mark asset as fully configured | Save Service Plan

Add Custom Measurement

[Guide text explaining function to user] Lorem Ipsum. Add up to 20 custom measurements to each asset's service plan.

CHOOSE MEASUREMENT NAME: Numeric Custom Measurement #1

INDICATOR: KCl

FREQUENCY: Bi-Weekly

MEASUREMENT TYPE: Conductivity

UNIT OF MEASUREMENT: us / cm

DESCRIPTION (OPTIONAL) — Limit 500 characters

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut maximus accumsan mollis. Ut a venenatis odio. Nulla in hendrerit diam, quis ultrices lacus. Curabitur quam felis, ornare viverra tincidunt at, ultrices a justo.

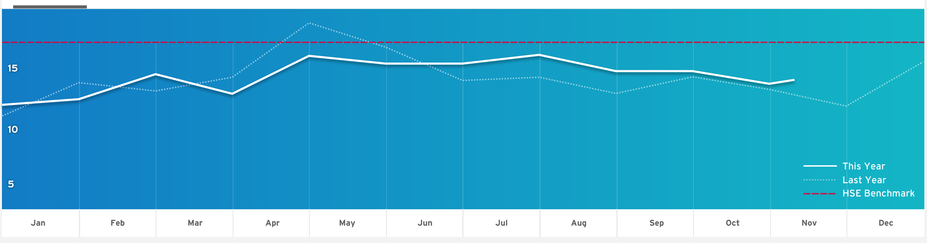
Cancel | Save

Site Dashboard

Eagle Ford

Associate LIMS Reports At Site

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Gross Margin

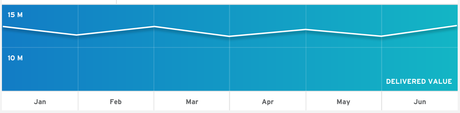


CMV Projects

Active
52

Alerts
3 Overdue
3 No Defined Value

Potential Value: $45.6 M
YTD Delivered Value: $12.6 M



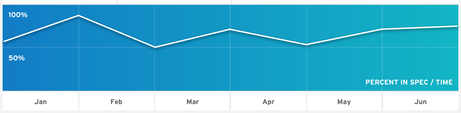
INCLUDES DATA FROM CMV / GRAPH DISPLAYING LAST 6

TLM Overview

Total Units
10

Offline
4

Current Health
81%



DATA FROM 3D TRASAR / GRAPH DISPLAYING LAST 6 MONTHS

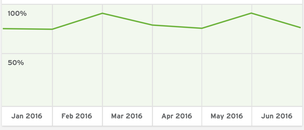
Chemical Applications

Corrosion Inhibitor 1

Pump Efficiency
92%

Flow Assurance
85%

Phase Seperation
73%



GRAPH DISPLAYING LAST 6 MONTHS

Corrosion Inhibitor 2

Pump Efficiency
92%

Flow Assurance
85%

Phase Seperation
73%

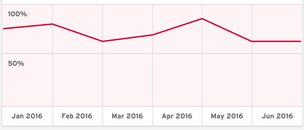
GRAPH DISPLAYING LAST 6 MONTHS

Corrosion Inhibitor 3

Pump Efficiency
61%

Flow Assurance
90%

Phase Seperation
73%



GRAPH DISPLAYING LAST 6 MONTHS

Equipment

Customize | Favorites

All Routes (118) | Route A (56) | Route C (62) | +

All Equipment (62) | Wells (10) | Tanks (12) | Vessels (16) | Pipelines (24) | +

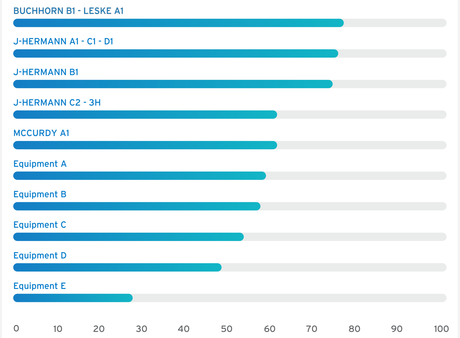
Name	Alerts	Measurement	Usage Rate	Current Measurement	Usage Cost	Total Volume	Target Dosage	★
BUCHHORN B1 - LESKE A1	1	93.5 US gal	0.59 US gal/day	578.26 USD	11.49 USD	29.7 US gal	17 US gal/day	☆
J-HERMANN A1 - C1 - D1	0	114.4 US gal	0.75 US gal/day	141.9 USD	8.25 USD	12.9 US gal	4 US gal/day	☆
J-HERMANN B1	0	144 US gal	2.07 US gal/day	907.3 USD	40.3 USD	46.6 US gal	17 US gal/day	☆
J-HERMANN C2 - 3H	⚠ 3	83.4 US gal	7.29 US gal/day	385 USD	27.83 USD	35 US gal	4 US gal/day	☆
MCCURDY A1	0	157.9 US gal	46.47 US gal/day	682 USD	80.19 USD	62 US gal	3 US gal/day	★
Equipment A	⚠ 2	419.5 US gal	68.06 US gal/day	4,233.9 USD	511.17 USD	384.9 US gal	24 US gal/day	☆
Equipment B	1	354 US gal	16.24 US gal/day	6,319.5 USD	748.66 USD	574.5 US gal	55 US gal/day	☆
Equipment C	0	101.5 US gal	0.08 US gal/day	961.4 USD	0.88 USD	0.8 US gal	2 US gal/day	☆
Equipment D	0	216.4 US gal	0 US gal/day	8.8 USD	0 USD	5.2 US gal	4 US gal/day	★
Equipment E	0	183 US gal	73.69 US gal/day	57.2 USD	178.64 USD	87.4 US gal	21 US gal/day	★

Compare Selected Maximum 10

INCLUDES DATA FROM SYSTEM ASSURANCE & 3D TRASAR

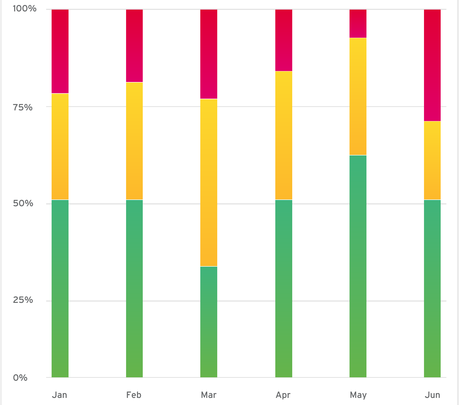
Top 10 Opportunities

Undertreatment Locations (26) | Highest Producers (10) | Highest H2S(12) | +



INCLUDES MANUAL AND OFFLINE DATA / GRAPH DISPLAYING LAST 6 MONTHS

Pump Efficiency Variance



INCLUDES MANUAL AND OFFLINE DATA / GRAPH DISPLAYING LAST 6 MONTHS

Operational Compliance

All | Yellows | Reds

All Equipment (62) | Wells (10) | Tanks (12) | Vessels (16) | Pipelines (24) | +

		Yellow	Red
Measurement: Usage Rate Outside Of Limit Asset: MCCURDY A1 Area / Unit: Concrete A		137	25
Measurement: Tank Level Below Limit Asset: Tank BUCHHORN B1 Area / Unit: Concrete A		88	72
Measurement: Variable Out Of Limit Asset: MCCURDY A1 Area / Unit: Concrete A		106	13
Measurement: Variable Out Of Limit Asset: MCCURDY A1 Area / Unit: Concrete A		31	52

INCLUDES MANUAL AND OFFLINE DATA / GRAPH DISPLAYING LAST 6 MONTHS

Watchlist

BUCHHORN B1 - LESKE A1

Deviation from Taget Usage

▲ 5% - 7 Days

J-HERMANN B1

Measurments Out of Compliance

Draw Down Rate	7
Target Dosage (QPD)	220
⚠ Usage Rate with Deliverables	523.77
Calculated Dosage Rate	335.8

MCCURDY A1

Tank Level

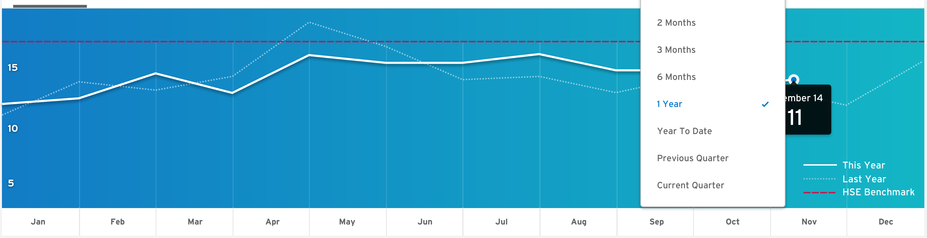
VIEW ASSETS BY: Type
- Type ✓
- Location

VIEW GRAPHS BY: Year To Date
- 7 Days
- 14 Days
- 1 Month
- 2 Months
- 3 Months
- 6 Months
- 1 Year ✓
- Year To Date
- Previous Quarter
- Current Quarter

UNIT TYPE: Imperial
- Imperial ✓
- Metric

Eagle Ford

Safety Incidents | Near Misses | Financial Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost | Cross I...



CMV Projects

Active
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- 3 Overdue
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Potential Value: $45.6 M
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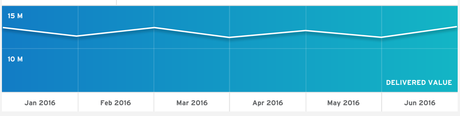

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Current Health
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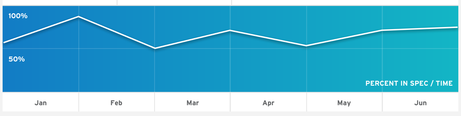


DATA FROM 3D TRASAR / GRAPH DISPLAYING LAST 6 MONTHS

Chemical Applications

Corrosion Inhibitor 1

Pump Efficiency
92%

Flow Assurance
85%

Phase Seperation
73%

GRAPH DISPLAYING LAST 6 MONTHS

Corrosion Inhibtor 2

Pump Efficiency
92%

Flow Assurance
85%

Phase Seperation
73%

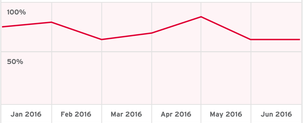
GRAPH DISPLAYING LAST 6 MONTHS

MCCURDY A1

Asset Integrity
61%

Flow Assurance
90%

Phase Seperation
73%



GRAPH DISPLAYING LAST 6 MONTHS

Equipment

Customize | Favorites

All Routes (118) | Route A (56) | Route C (62) | +

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Equipment D	0	216.4 US gal	0 US gal/day	8.8 USD	0 USD	5.2 US gal	4 US gal/day	★
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Compare Selected | Maximum 10

INCLUDES DATA FROM SYSTEM ASSURANCE & 3D TRASAR

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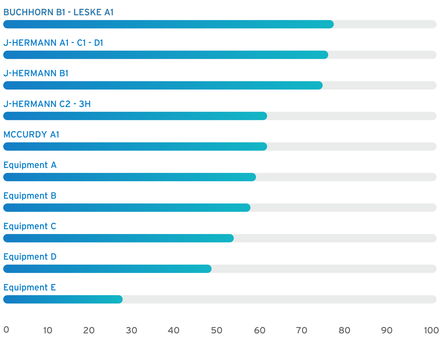
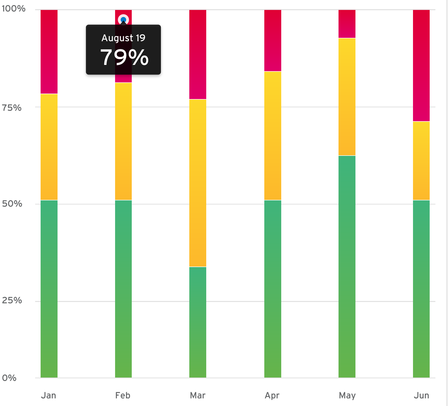


INCLUDES MANUAL AND OFFLINE DATA / GRAPH DISPLAYING LAST 6 MONTHS

Pump Efficiency Variance



INCLUDES MANUAL AND OFFLINE DATA / GRAPH DISPLAYING LAST 6 MONTHS

Operational Compliance

All | Yellows | Reds

All Equipment (62) | Wells (10) | Tanks (12) | Vessels (16) | Pipelines (24) | +

		Yellow	Red
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INCLUDES MANUAL AND OFFLINE DATA / GRAPH DISPLAYING LAST 6 MONTHS

Watchlist

BUCHHORN B1 - LESKE A1

Current KPI Compliance

▲ 5% - 7 Days

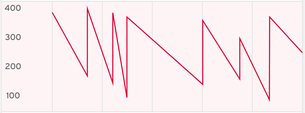
J-HERMANN B1

Measurments Out of Compliance

⚠ NCM 2 (mpy)	7.3
⚠ pH	1452.84
⚠ PRP (mV)	0.98
⚠ ORP (mV)	0.72
⚠	
⚠	

MCCURDY A1

Tank Level



RefinedKnowledge

Search

9

JS

Sites > Eagle Ford

VIEW ASSETS BY **Type**

VIEW GRAPHS BY **Year To Date**

INDICATOR TYPE **KPI**

Jan 2016 | Feb 2016 | Mar 2016 | Apr 2016 | May 2016 | Jun 2016

GRAPH DISPLAYING LAST 6 MONTHS

Equipment

Customize | Favorites

All Routes (118) | Route A (56) | Rou

All Equipment (62) | Wells (10) | Ta

Name	Alerts	Cost	Total Volume	Target Dosage	★
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J-HERMANN A1 - C1 - D1	0	SD	12.9 US gal	4 US gal/day	☆
J-HERMANN B1	0	SD	46.6 US gal	17 US gal/day	☆
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Equipment B	1	USD	574.5 US gal	55 US gal/day	☆
Equipment C	0	SD	0.8 US gal	2 US gal/day	☆
Equipment D	0		5.2 US gal	4 US gal/day	★
Equipment E	0	USD	87.4 US gal	21 US gal/day	★

Compare Selected | Maximum 10

INCLUDES DATA FROM SYSTEM ASSURANCE & 3D TRASAR

Customize Table | Filter

Customize the columns displayed in this table by checking or unchecking the options below.

- [x] Alerts
- [x] Measurment
- [x] Usage Rate
- [x] Current Measurement
- [x] Usage Cost
- [x] Total Volume
- [x] Total Dosage
- [ ] Production Rates
- [ ] Tank Level
- [ ] Injection Rate
- [ ] Dosage Spec

Cancel | Save

Top 10 Opportunities

All Assets (26) | Cooling Tower (10) | Boilers (12)

Crude Tower Single Drum (4) +

CT Halogen Free (CT-MU)

Pump Efficiency Variance

100%

RefinedKnowledge

Search

9

JS

Sites > Eagle Ford

VIEW ASSETS BY **Type**

VIEW GRAPHS BY **Year To Date**

INDICATOR TYPE **KPI**

Jan 2016 | Feb 2016 | Mar 2016 | Apr 2016 | May 2016 | Jun 2016

GRAPH DISPLAYING LAST 6 MONTHS

Equipment

Customize | Favorites

All Routes (118) | Route A (56) | Rou

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Compare Selected | Maximum 10

INCLUDES DATA FROM SYSTEM ASSURANCE & 3D TRASAR

Customize Table | Filter

Filter the data included in this table by checking or unchecking the options below.

- [x] Route
  - [x] Route A
  - [ ] Route B
  - [x] Route C
  - [ ] Route D
- [ ] Foreman
- [ ] Treatment Type
- [x] Equipment
  - [x] Wells
  - [x] Tanks
  - [x] Vessels
  - [x] Pipelines

Cancel | Save

Top 10 Opportunities

All Assets (26) | Cooling Tower (10) | Boilers (12)

Crude Tower Single Drum (4) | +

CT Halogen Free (CT-MU)

Pump Efficiency Variance

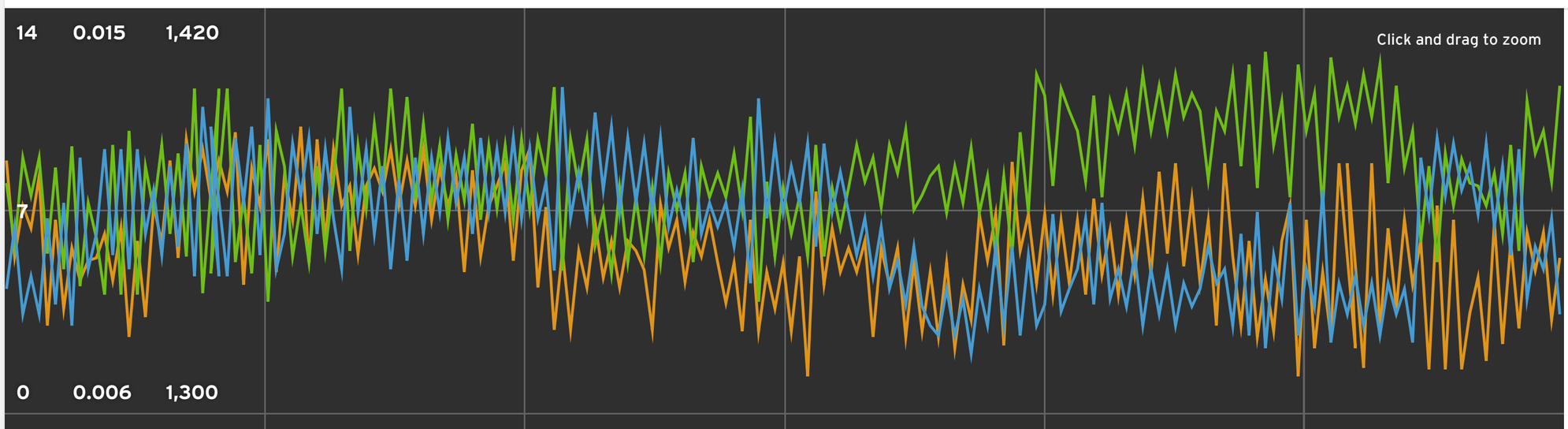
100%

Compare Assets

Sites > Eagle Ford > Compare

Compare Assets

Time Range: Last 6 Months



Y-Axis

Iron
8.4 - 7.7

Display Annotations

Assets & Parameters: Configure

IRON — IRON BUCHHORN B1 | IRON MCCURDY A1 | IRON J-HERMANN B1

Annotations

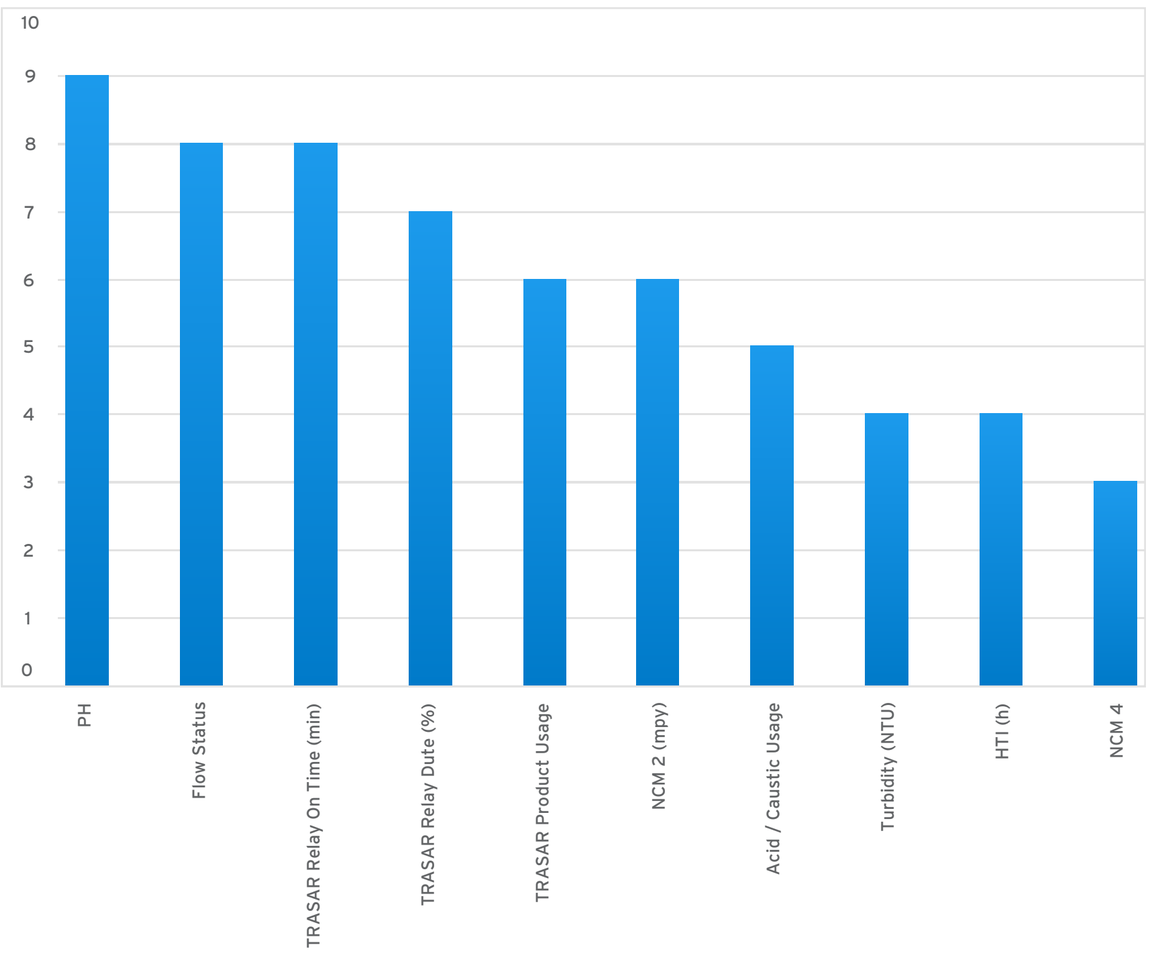
Asset	Measurements	Value	Type	Note	Author	Time and Date
BUCHHORN B1	pH	11	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/09/2017 8:30 AM
MCCURDY A1	Conductivity	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/07/2017 11:10 AM
J-HERMAN B1	Copper	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/05/2017 12:30 AM
J-HERMAN B1	Sulfate	4.3	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/04/2017 2:30 AM
BUCHHORN B1	Trasar Dose - 3DT	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/04/2017 2:00 AM
BUCHHORN B1	Turbidity	11	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/09/2017 8:30 AM
BUCHHORN B1	Zinc	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/07/2017 11:10 AM
J-HERMAN B1	Total Organic Carbon	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/05/2017 12:30 AM
MCCURDY A1	Silica	4.3	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/04/2017 2:30 AM
J-HERMAN B1	Aluminum	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipi...	name@email.com	06/04/2017 2:00 AM

Alarm Analysis

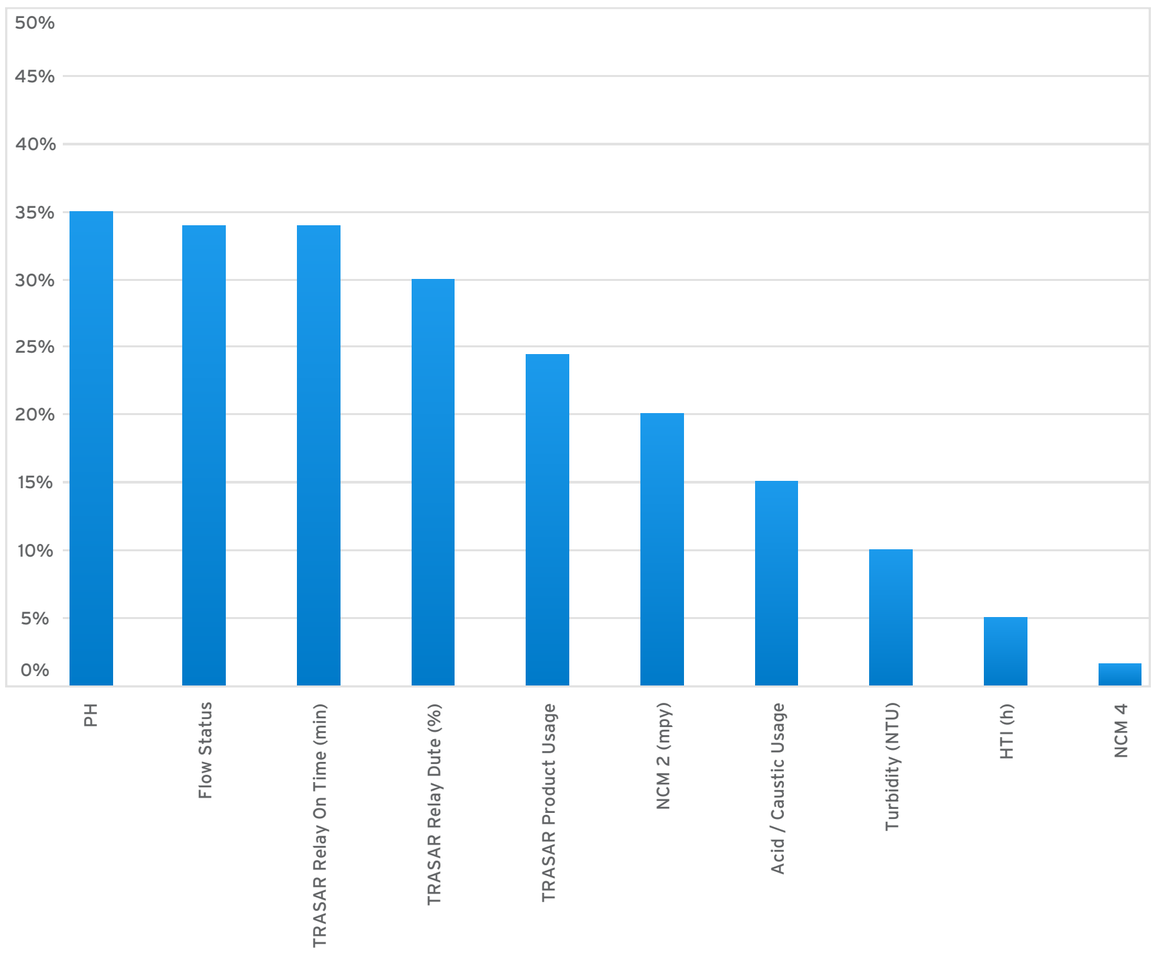
BUCHHORN B1

Show All | Show Top 10

Tank Level Alarms



LIMS Alarms

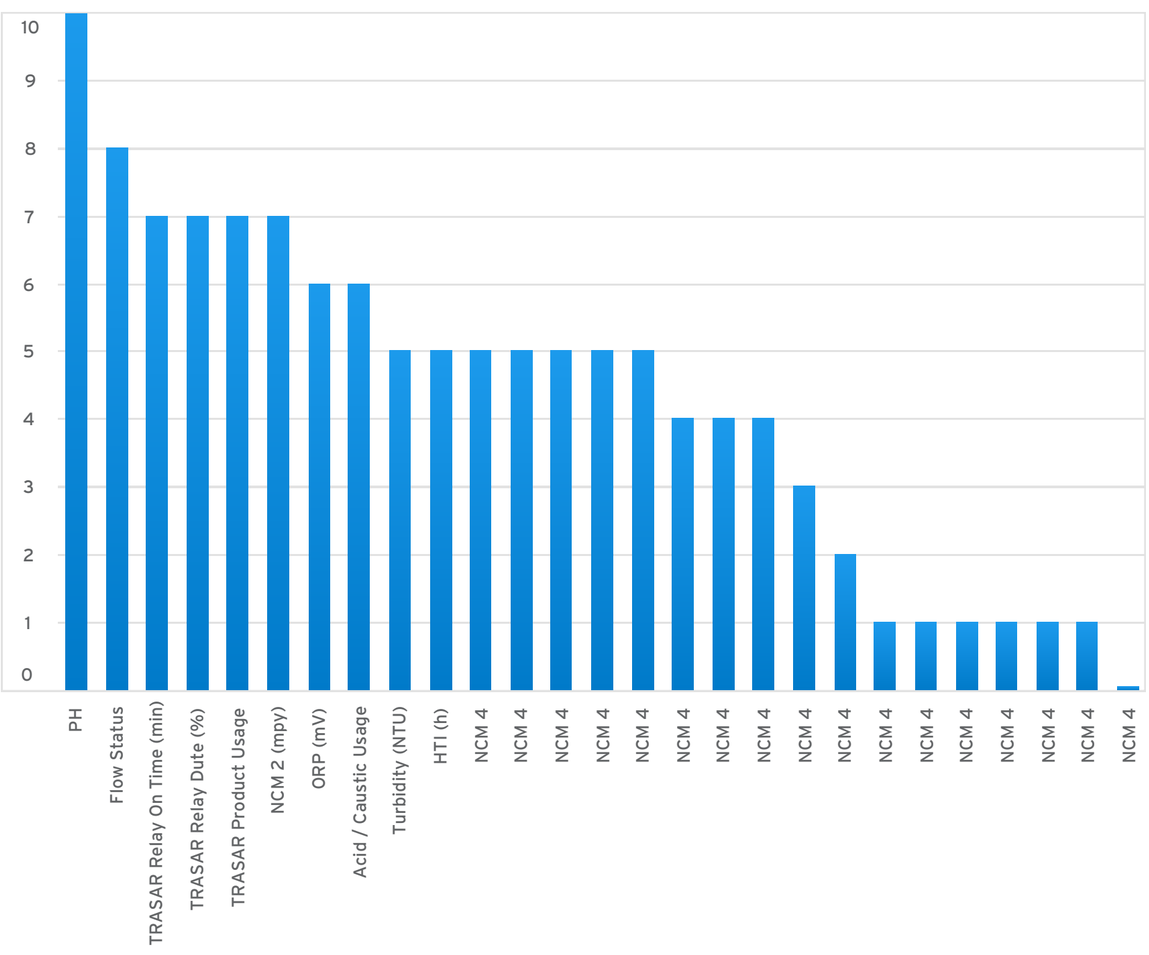


MCCURDY A1

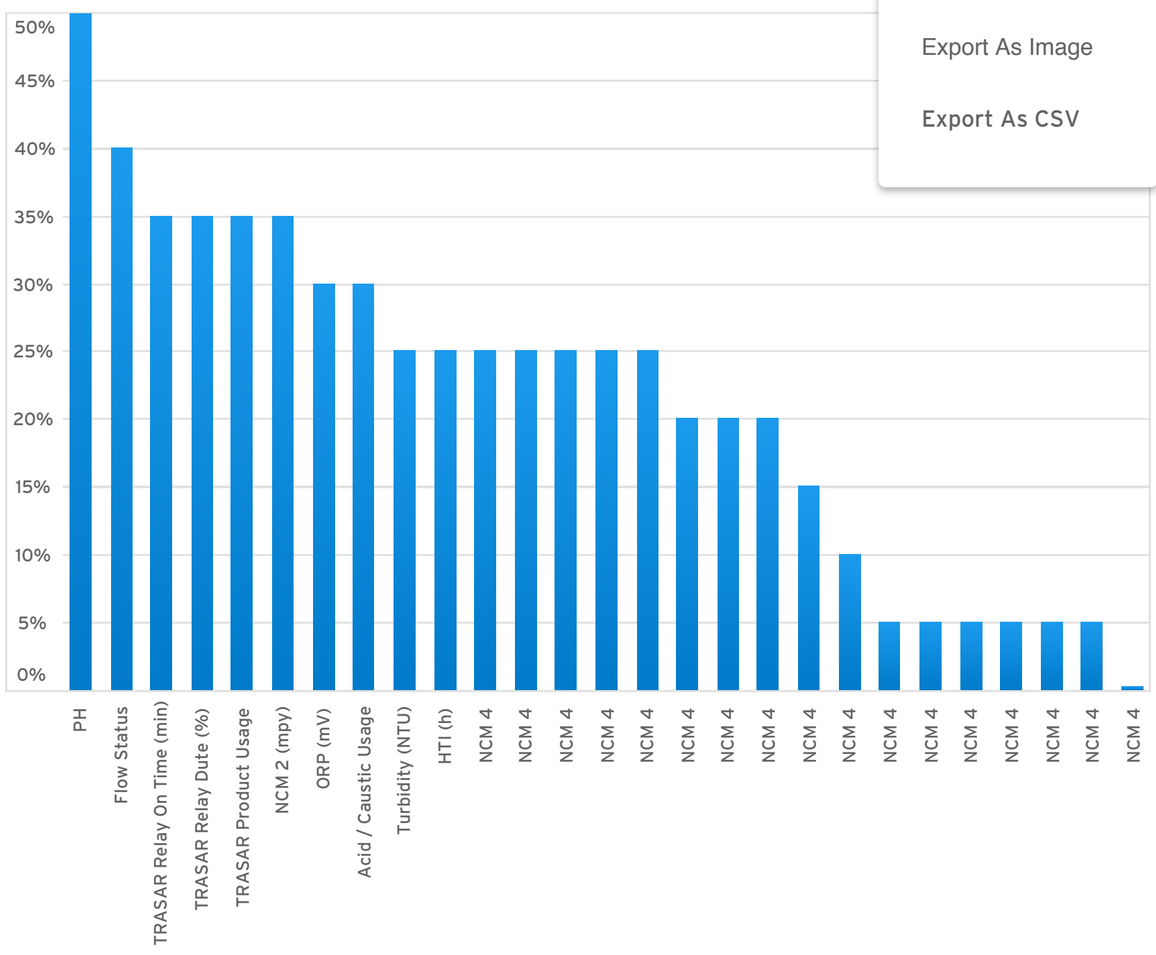
Show All | Show Top 10

- Configure Alarms
- Add To Report
- Export As Image
- Export As CSV

Tank Level Alarms



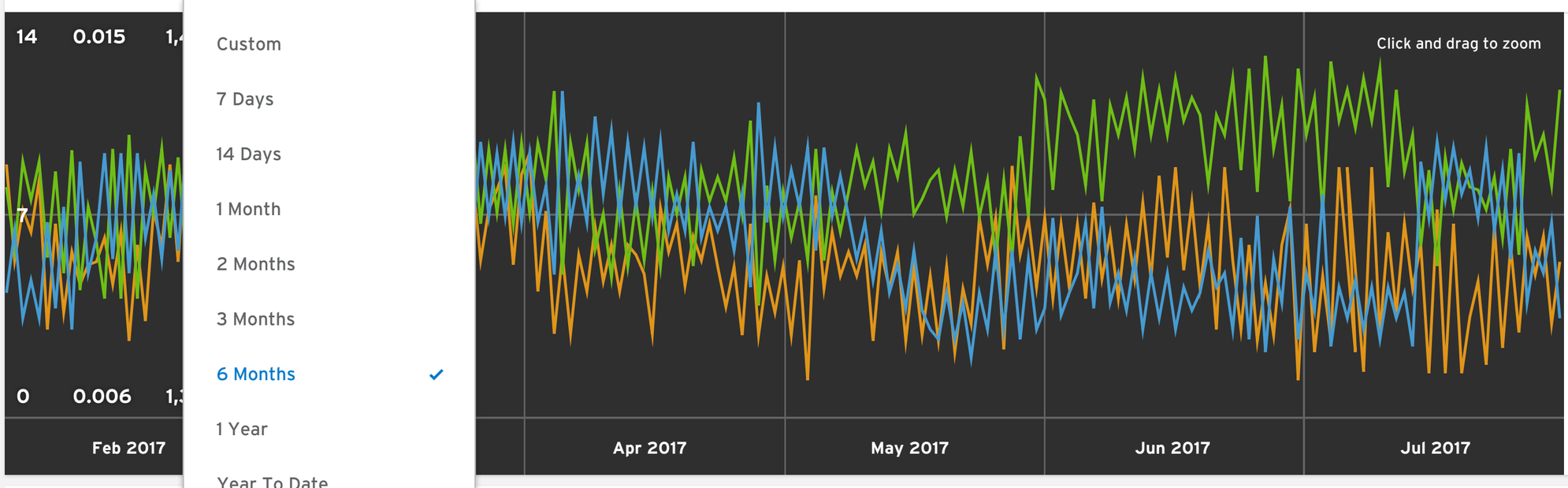
LIMS Alarms



Compare Assets

Time Range | Last 6 Months

- Custom
- 7 Days
- 14 Days
- 1 Month
- 2 Months
- 3 Months
- 6 Months ✓
- 1 Year
- Year To Date
- Previous Quarter
- Current Quarter



Y-Axis

Iron
8.4 - 7.7

Display Annotations

Assets & Paramet

IRON – | IRON MCCURDY A1 | IRON J-HERMANN B1

Annotations

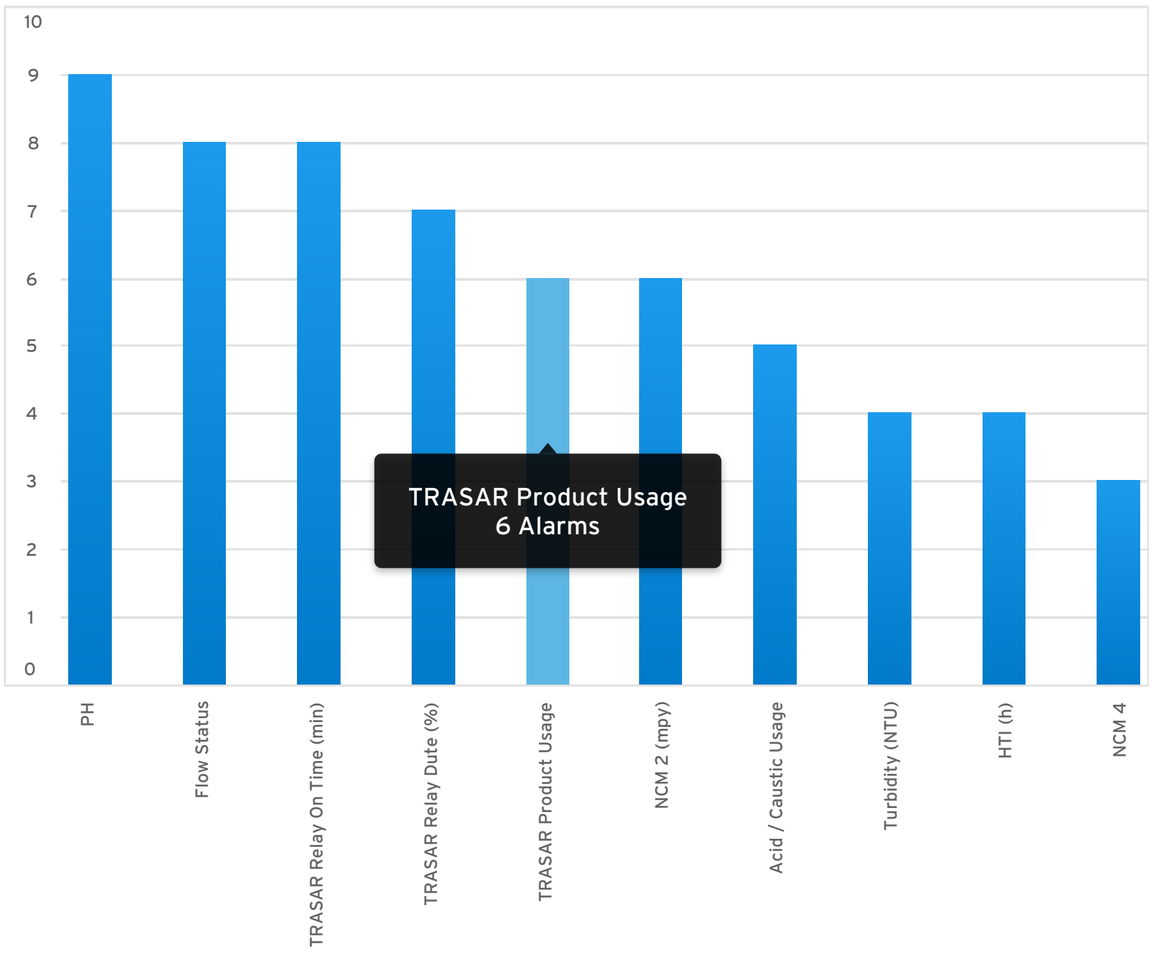
Alarm Analysis

BUCHHORN B1

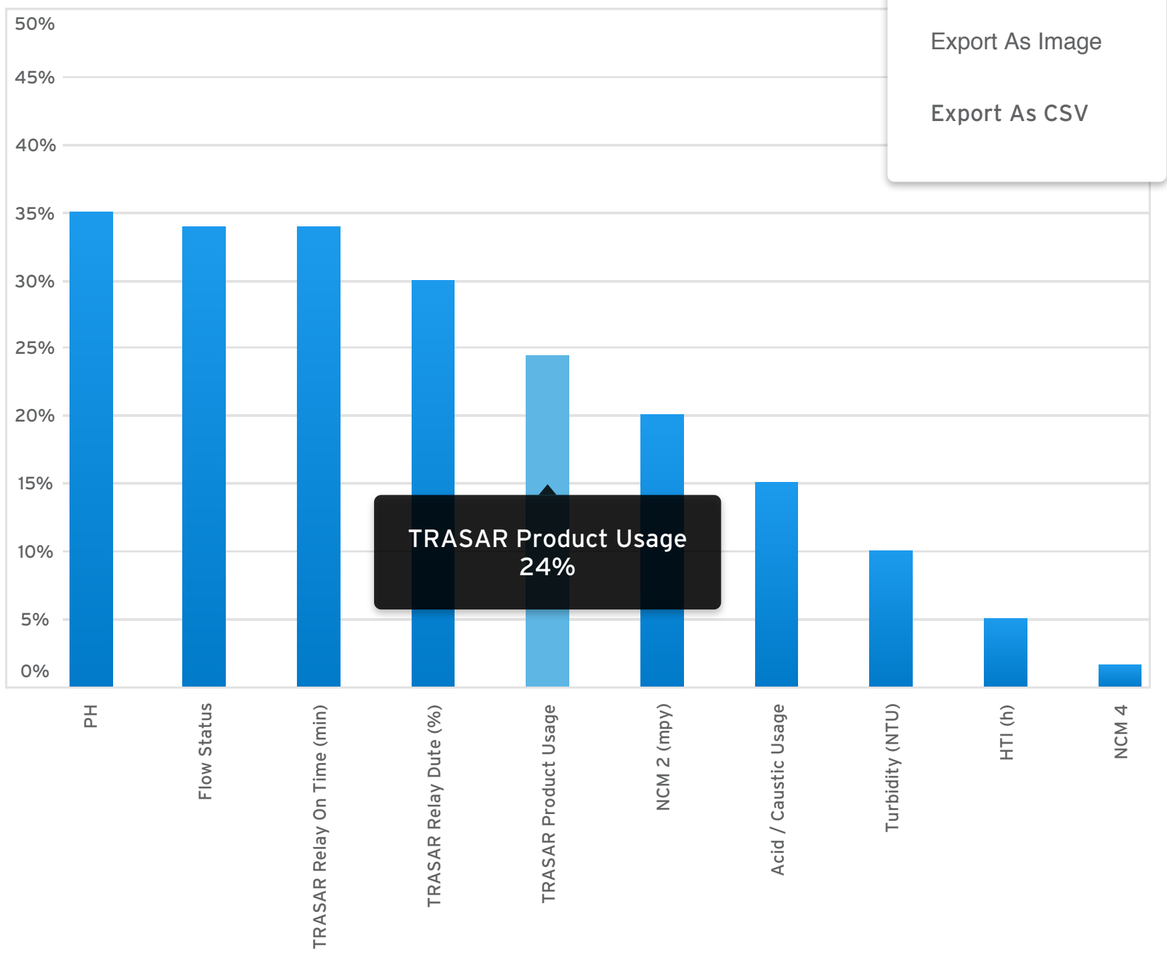
Show All | Show Top 10

- Configure Alarms
- Add To Report
- Export As Image
- Export As CSV

Tank Level Alarms



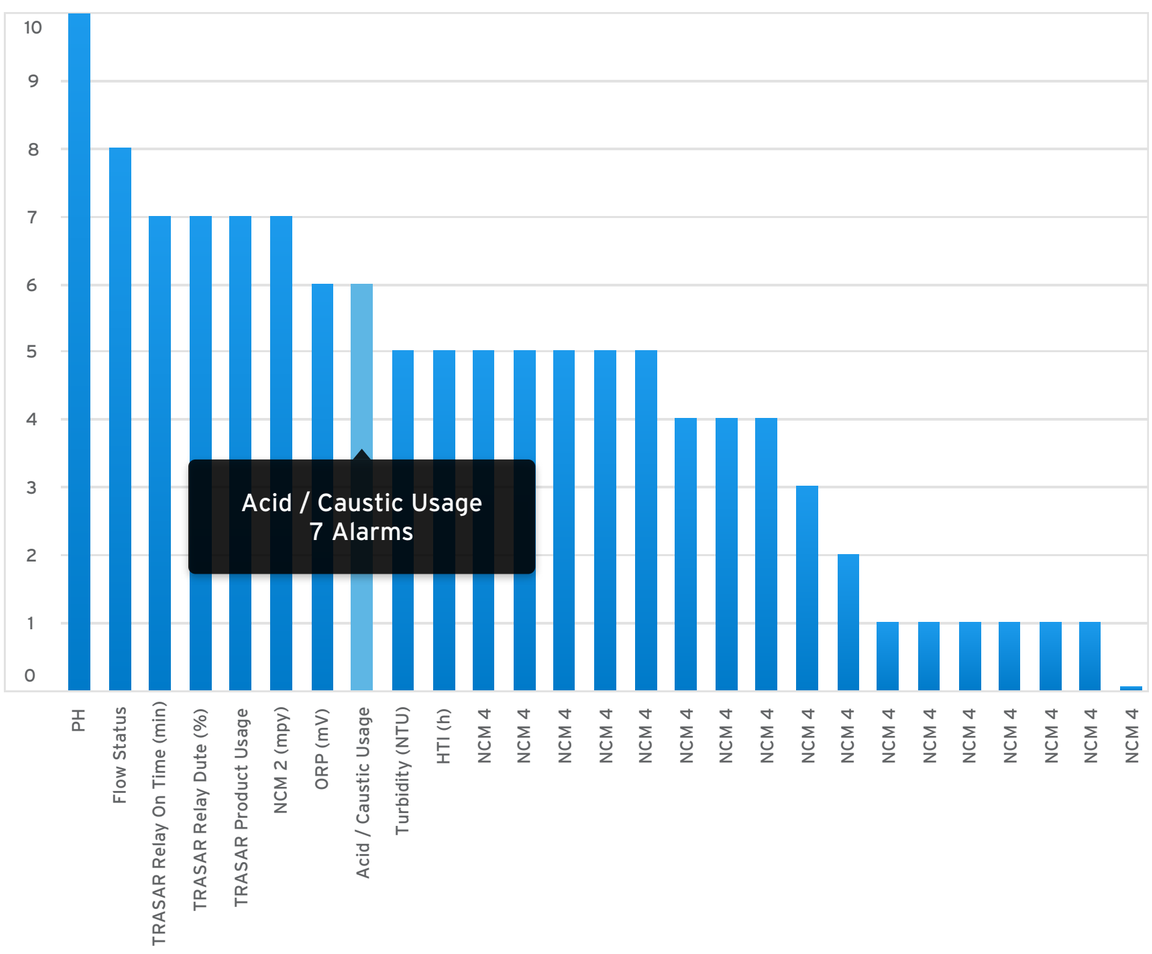
LIMS Alarms



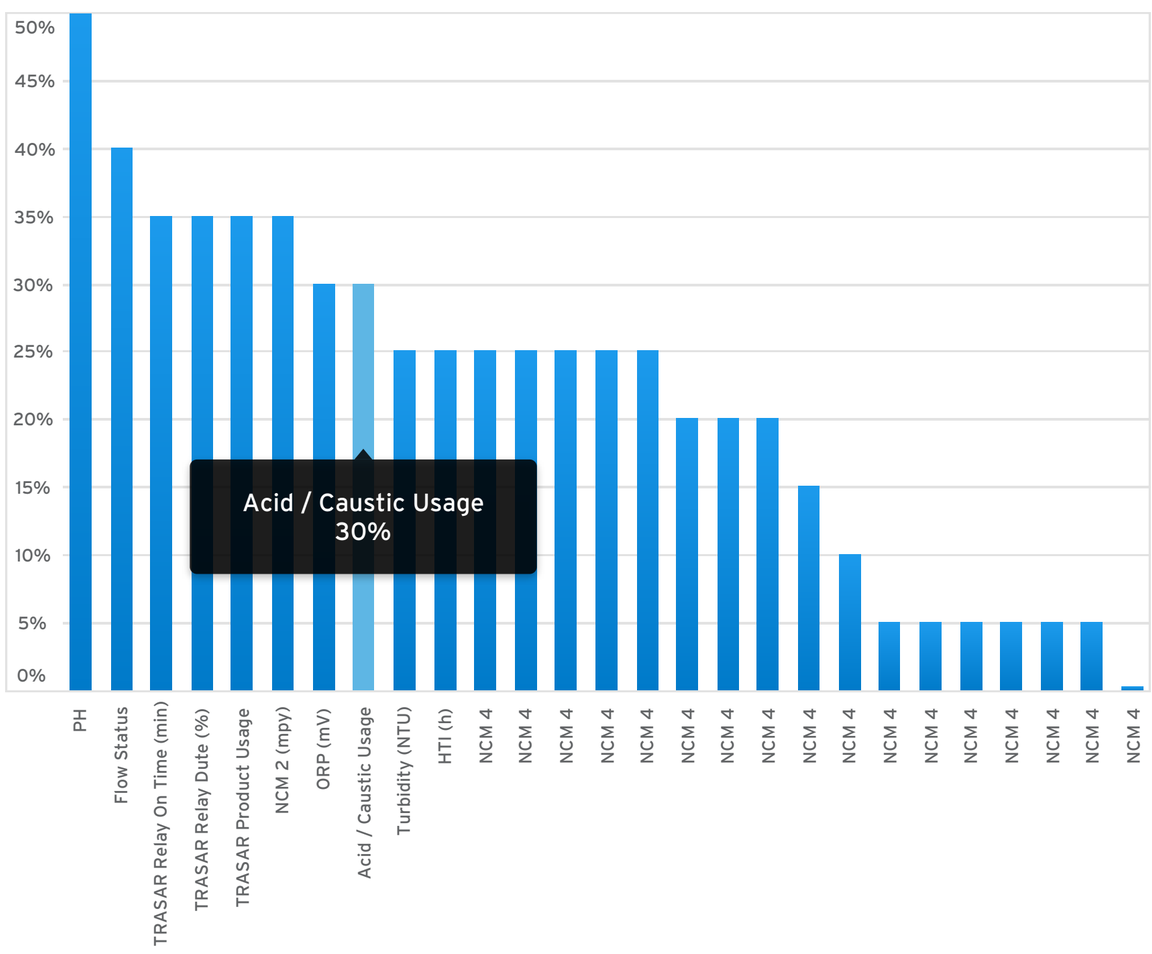
MCCURDY A1

Show All | Show Top 10

Tank Level Alarms

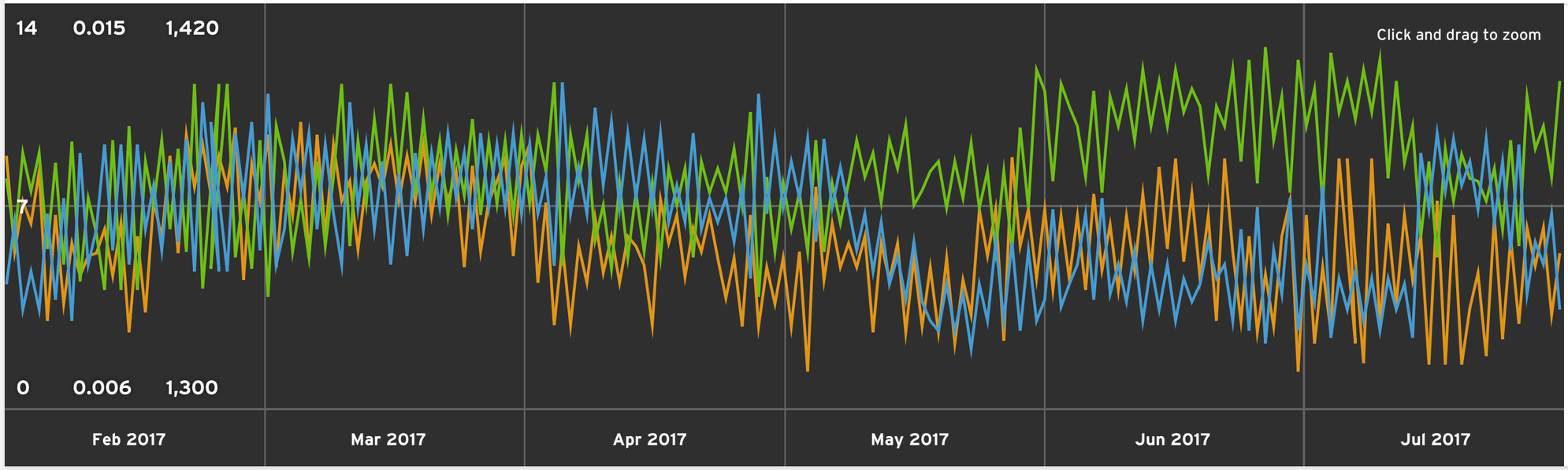


LIMS Alarms



Compare Assets

Time Range | Custom | Start Date | 02/01/2017 | 12:00 PM | End Date | 07/01/2017 | 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Display Annotations

Assets & Parameters | Configure

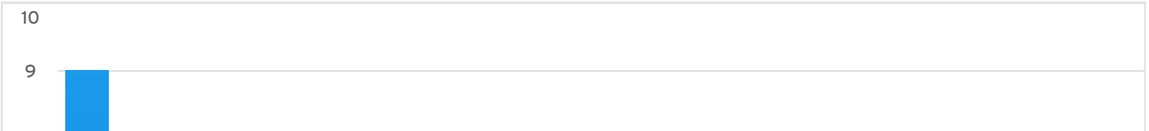
IRON — IRON BUCHHORN B1 | IRON MCCURDY A1 | IRON J-HERMANN B1

Annotations

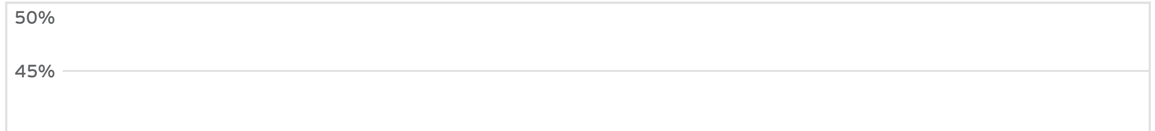
Alarm Analysis

BUCHHORN B1 | Show All | Show Top 10

Tank Level Alarms

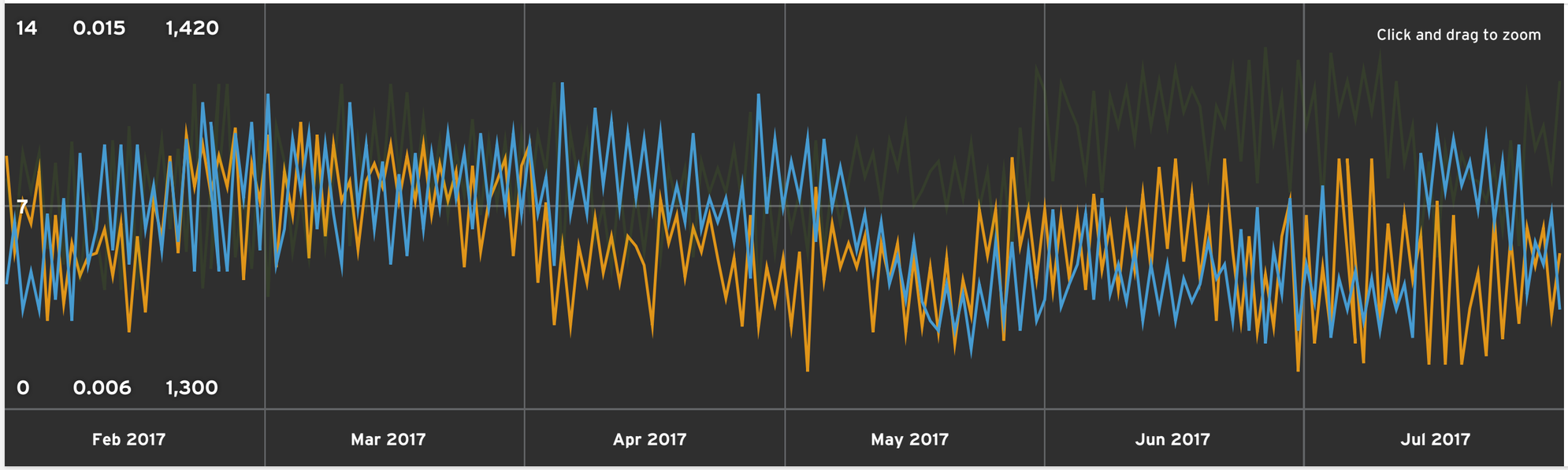


LIMS Alarms



Compare Assets

Time Range | Custom | Start Date | 02/01/2017 | 12:00 PM | End Date | 07/01/2017 | 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Display Annotations

Assets & Parameters | Configure

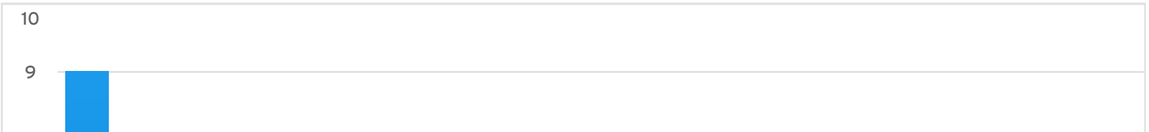
IRON — IRON BUCHHORN B1 | IRON MCCURDY A1 | IRON J-HERMANN B1

Annotations

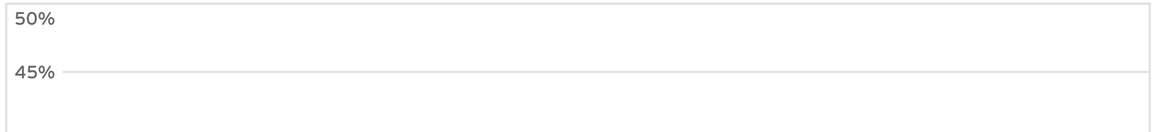
Alarm Analysis

BUCHHORN B1 | Show All | Show Top 10

Tank Level Alarms

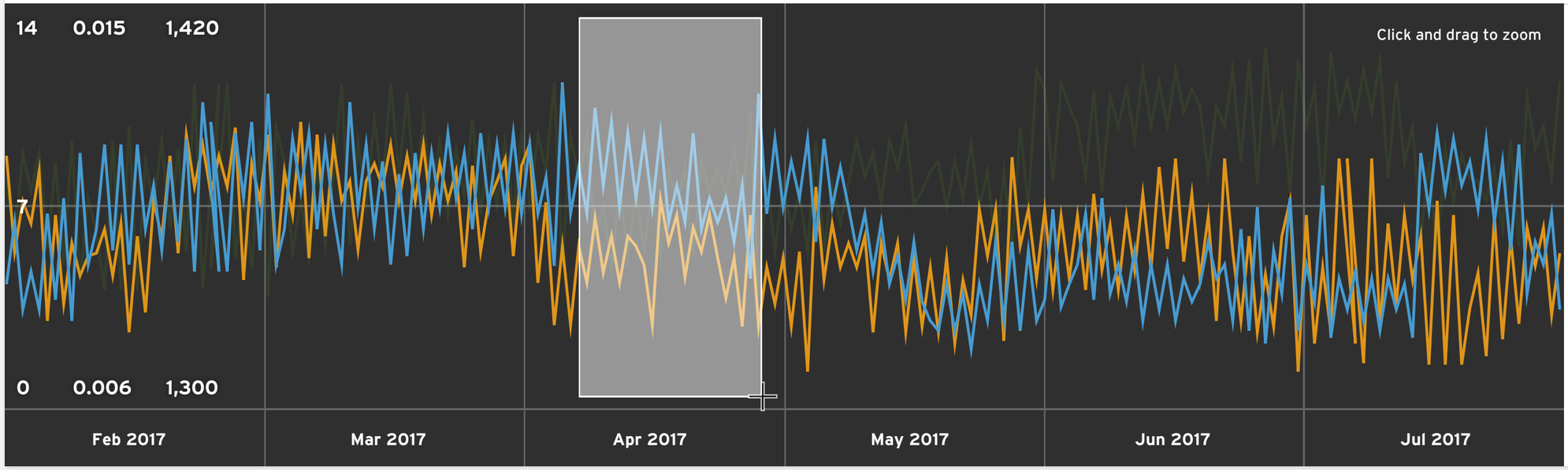


LIMS Alarms



Compare Assets

Time Range | Custom | Start Date | 02/01/2017 | 12:00 PM | End Date | 07/01/2017 | 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Display Annotations

Assets & Parameters | Configure

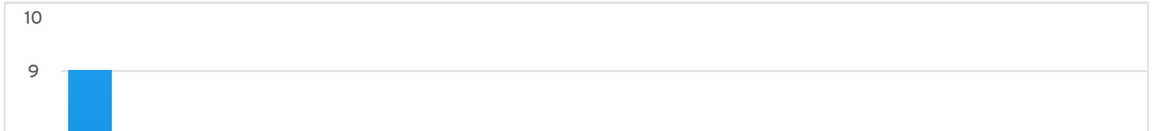
IRON — IRON BUCHHORN B1 | IRON MCCURDY A1 | IRON J-HERMANN B1

Annotations

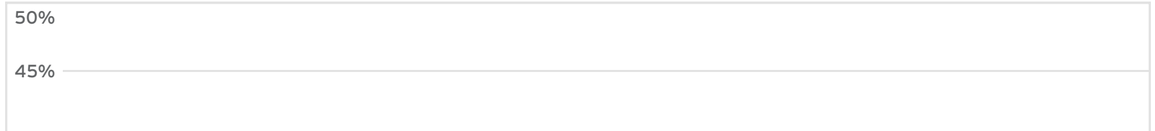
Alarm Analysis

BUCHHORN B1 | Show All | Show Top 10

Tank Level Alarms

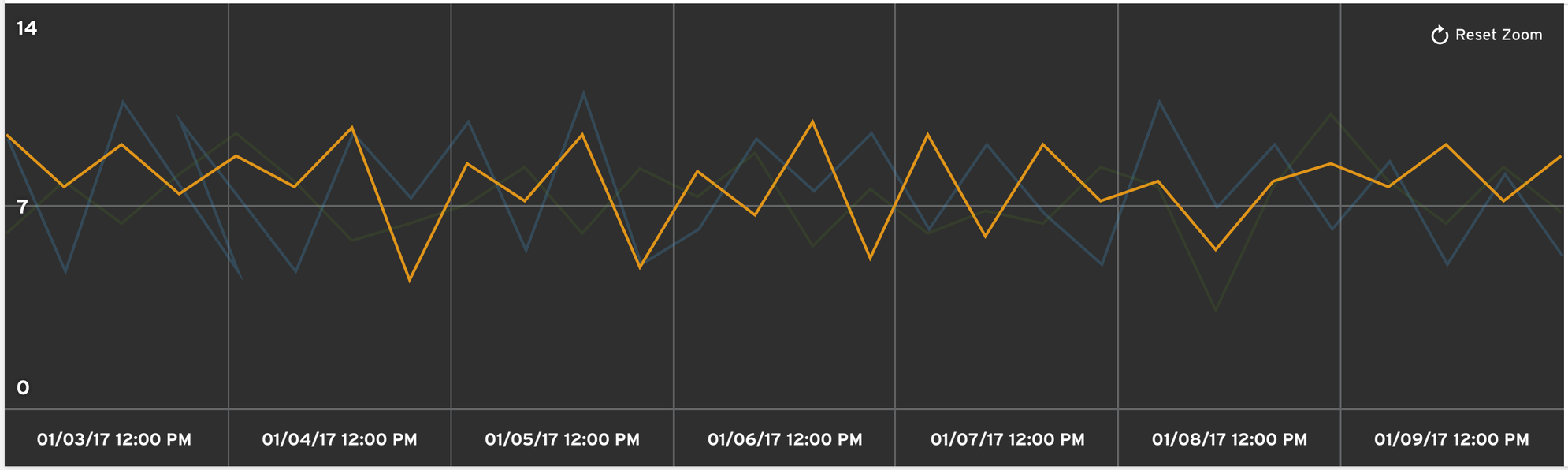


LIMS Alarms



Compare Assets

Time Range | Custom | Start Date | 01/03/2017 | 12:00 PM | End Date | 01/09/2017 | 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Display Annotations

Assets & Parameters | Configure

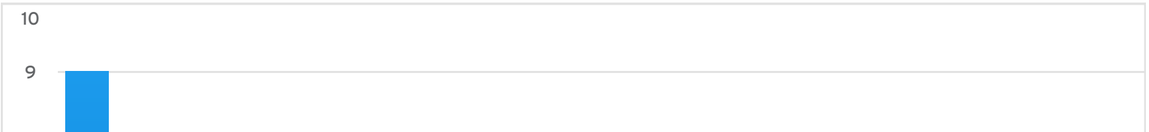
IRON — IRON BUCHHORN B1 | IRON MCCURDY A1 | IRON J-HERMANN B1

Annotations

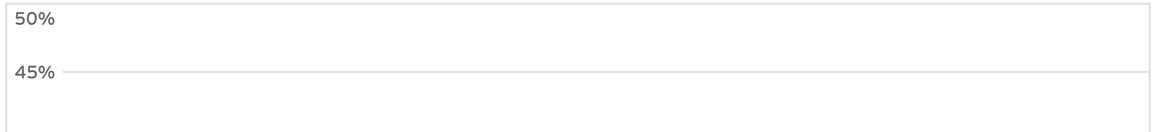
Alarm Analysis

BUCHHORN B1 | Show All | Show Top 10

Tank Level Alarms



LIMS Alarms

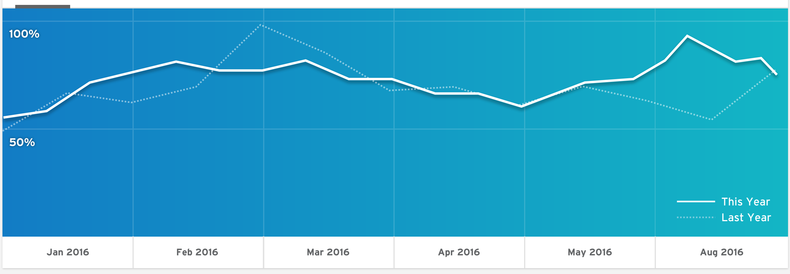


Asset Dashboard

Buchhorn B1

Remove Asset From Watchlist | Asset Settings & Limits

Treatment | Service | Inventory | Workover | Slickline | Production | Lab Data | Recommendation Management



eROI Opportunity

Cost Per BOE	$/yr
Target Cycles	$190,000
Asset Life	
Mild Steel Corossion	$28,000
Admirality Corossion	$28,000
Current Opportunity Cost	$230,000

GRAPH DISPLAYING LAST 6 MONTHS

Well History

Well Age	10 years
Service Date	07/24/2007
Example	Example Unit
Example	Example Unit
Example	Example Unit

Well Chemistry

Example 1	###
Example 2	###
Example 3	###
Example 4	###
Example 5	###

Inventory Table

Example 1	###
Example 2	###
Example 3	###
Example 4	###
Example 5	###

Treatment History

Treatment Example 05-10-2018

[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis metus in ex vestibulum rutrum. Etiam cursus aliquet ante, at.

Treatment Example 05-10-2018

[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit.

Tank Level

Tank Level to Date

5% - 7 Days

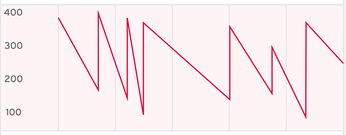
Pump Efficiency

Pump Detail

Draw Down Rate	7
Target Dosage (QPD)	220
⚠ Usage Rate with Deliverables	523.77
Calculated Dosage Rate	335.8

Daily Dosage Rate

Daily Rate Past 6 Months



Daily Rate

Measurements

All | Exceptions | Alerts

Search Measurements | Customize

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

Show Only Selected

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High	Watchlist (Max 5)
Draw Down Rate	05-20-18 3:45pm	⚠ 6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	9.82	
Tank Level	05-20-18 3:45pm	191	187	200.5	191	88%	81	91	101	121	
Target Dosage Rate	05-20-18 3:45pm	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5	
Iron	05-20-18 3:45pm	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5	
Manganese	05-20-18 3:45pm	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6	
Injection Rate	05-20-18 3:45pm	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	152.2	
Measurement A	05-20-18 3:45pm	165.2	158.2	188.6	145.6	91%	130.6	145.6	165.5	170.6	
Measurement B	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	
Measurement C	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	
Measurement D	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	

Compare Selected | Maximum 10

Documents

View All

Training Document.pdf	05-20-2018
MSDS for Coker.pdf	05-12-2018
Safety Dashboard.doc	05-12-2018
Special Document.pdf	05-10-2018
System Diagram.csv	05-20-2018

CMV Projects

View All

Coker Services	Complete
3D TRASAR for Cokers	Active
Cost Optimization	Active

Events and Comments

Event Frames

Mike Jerla 05-10-2018

⚠ pH: 7.5

[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis metus in ex vestibulum rutrum. Etiam cursus aliquet ante, at.

Mike Jerla 05-10-2018

[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis metus in ex vestibulum rutrum. Etiam cursus aliquet ante, at.

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Comment Tags

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Annotations

View All

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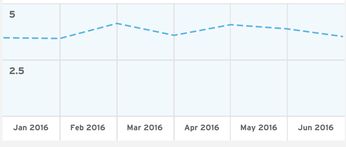
LIMS

LIMS Iron

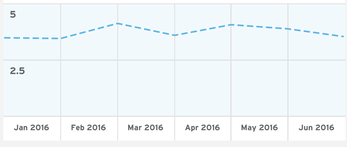
-- LIMS



GRAPH DISPLAYING LAST 6 MONTHS

LIMS Manganese

-- LIMS



GRAPH DISPLAYING LAST 6 MONTHS

LIMS Reports

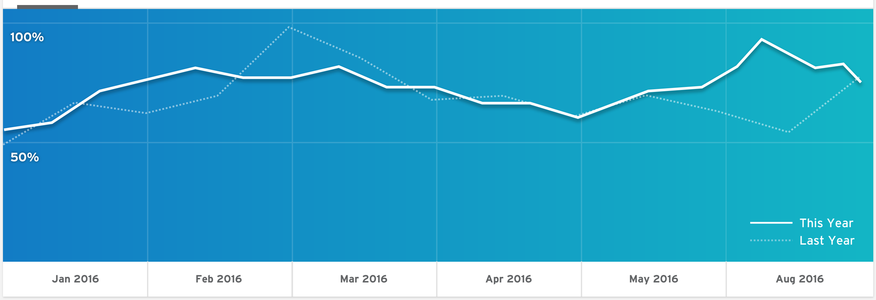
View All

[Report Name] - 1472207	05-20-2018
[Report Name] - 1472309	05-12-2018
[Report Name] - 147311	05-05-2018
[Report Name] - 145928	05-01-2018
[Report Name] - 111249	05-01-2018

Buchhorn B1 - Leske A1

Remove Asset From Watchlist
Asset Settings & Limits

Treatment | Service | Inventory | Workover | Slickline | Production | Lab Data | Recommendation Management



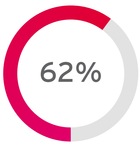
eROI Opportunity

[Text Explaining eROI calculation]

Cost P	$/yr
Target Cycles	$90,000
Asset Life	
Mild Steel Corossion	$28,000
Admirality Corossion	$28,000
Current Opportunity Cost	**$230,000**

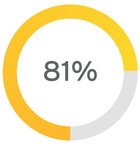
GRAPH DISPLAYING LAST 6 MONTHS

Tank Level



Displaying Current Data

Pump Efficency



Displaying Current Data

Daily Dosage Rate

Displaying Current Data

Measurements

All | Exceptions | Alerts

Search Measurements
Customize

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

Show Only Selected

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High	Watchlist (Max 5)
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Measurement C	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	
Measurement D	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	

Compare Selected Maximum 10

Documents

View All

Training Document.pdf	05-20-2018
MSDS for Coker.pdf	05-12-2018
Safety Dashboard.doc	05-12-2018
Special Document.pdf	05-10-2018
System Diagram.csv	05-20-2018

CMV Projects

View All

Coker Services	Complete
3D TRASAR for Cokers	Active
Cost Optimization	Active

Events and Comments

Event Frames

Mike Jerla 05-10-2018
pH: 7.5
[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis metus in ex vestibulum rutrum. Etiam cursus aliquet ante, at.

Mike Jerla 05-10-2018
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Comment Tags

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Annotations

View All

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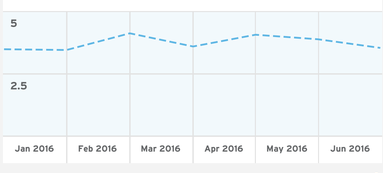
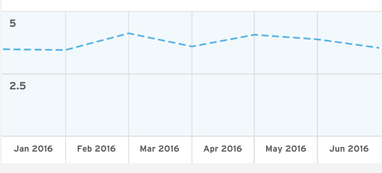
LIMS

LIMS Iron



GRAPH DISPLAYING LAST 6 MONTHS

LIMS Manganese



GRAPH DISPLAYING LAST 6 MONTHS

LIMS Reports

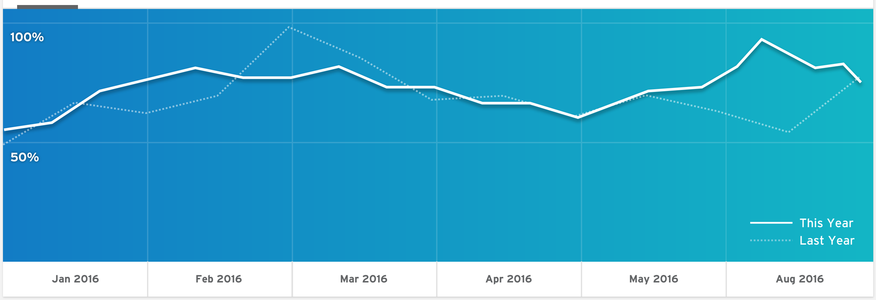
View All

[Report Name] - 1472207	05-20-2018
[Report Name] - 1472309	05-12-2018
[Report Name] - 147311	05-05-2018
[Report Name] - 145928	05-01-2018
[Report Name] - 111249	05-01-2018

Buchhorn B1 - Leske A1

Remove Asset From Watchlist
Asset Settings & Limits

Treatment | Service | Inventory | Workover | Slickline | Production | Lab Data | Recommendation Management

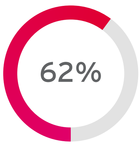


eROI Opportunity

Cost Per BOE	$/yr
Target Cycles	$190,000
Asset Life	
Mild Steel Corossion	$28,000
Admirality Corossion	$28,000
Current Opportunity Cost	**$230,000**

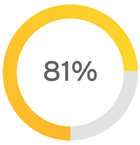
GRAPH DISPLAYING LAST 6 MONTHS

Tank Level



Displaying Current Data

Pump Efficency



Displaying Current Data

Daily Dosage Rate

Displaying Current Data

Measurements

All | Exceptions | Alerts

Search Measurements
Customize

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

Show Only Selected

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High	Watchlist (Max 5)
Draw Down Rate	05-20-18 3:45pm	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	9.82	
Tank Level	05-20-18 3:45pm	191	187	200.5	191	88%	81	91	101	121	
Target Dosage Rate	05-20-18 3:45pm	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5	
Iron	05-20-18 3:45pm	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5	
Manganese	05-20-18 3:45pm	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6	
Injection Rate	05-20-18 3:45pm	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	152.2	
Measurement A	05-20-18 3:45pm	165.2	158.2	188.6	145.6	91%	130.6	145.6	165.5	170.6	
Measurement B	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	
Measurement C	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	
Measurement D	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3	

Compare Selected Maximum 10

Documents

View All

Training Document.pdf	05-20-2018
MSDS for Coker.pdf	05-12-2018
Safety Dashboard.doc	05-12-2018
Special Document.pdf	05-10-2018
System Diagram.csv	05-20-2018

CMV Projects

View All

Coker Services	Complete
3D TRASAR for Cokers	Active
Cost Optimization	Active

Events and Comments

Event Frames

Mike Jerla 05-10-2018
pH: 7.5
[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis metus in ex vestibulum rutrum. Etiam cursus aliquet ante, at.

Mike Jerla 05-10-2018
[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis metus in ex vestibulum rutrum. Etiam cursus aliquet ante, at.

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Comment Tags

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Annotations

View All

Mike Jerla 05-10-2018
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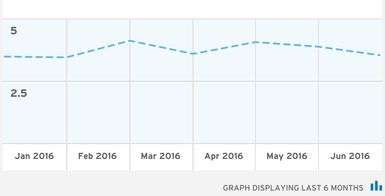
[Event Frame Title] Lorem ipsum dolor sit amet, consectetur adipiscing elit. Pellentesque sagittis metus in ex vestibulum rutrum. Etiam cursus aliquet ante, at.

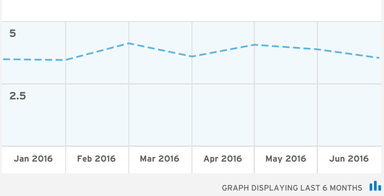
LIMS

LIMS Iron



GRAPH DISPLAYING LAST 6 MONTHS

LIMS Manganese



GRAPH DISPLAYING LAST 6 MONTHS

LIMS Reports

View All

[Report Name] - 1472207	05-20-2018
[Report Name] - 1472309	05-12-2018
[Report Name] - 147311	05-05-2018
[Report Name] - 145928	05-01-2018
[Report Name] - 111249	05-01-2018

Displaying Current Data

Displaying Current Data

Displaying Current Data

Measurements

All Exceptions Alerts

Search Measurements

Customize

All Measurements (54) Scale (10) Fouling

Show Only Selected

Name	Last Update	Low	High	High /High	Watchlist (Max 5)
Draw Down Rate	05-20-18 3:45pm	7.23	9.23	9.82	
Tank Level	05-20-18 3:45pm	91	101	121	
Target Dosage Rate	05-20-18 3:45pm	15.5	20.5	25.5	
Iron	05-20-18 3:45pm	0.5	2.5	3.5	
Manganese	05-20-18 3:45pm	35.6	40.6	46.6	
Injection Rate	05-20-18 3:45pm	126.2	146.2	152.2	
Measurement A	05-20-18 3:45pm	145.6	165.5	170.6	
Measurement B	05-20-18 3:45pm	1.3	3.3	4.3	
Measurement C	05-20-18 3:45pm	1.3	3.3	4.3	
Measurement D	05-20-18 3:45pm	1.3	3.3	4.3	

Compare Selected Maximum 10

Customize Table

Customize the columns displayed in this table by checking or unchecking the options below.

- [x] Value
- [x] Min
- [x] Max
- [x] Mean
- [x] Compliance
- [x] Low/Low
- [x] High
- [x] High/High
- [x] Low
- [ ] Measurement Type 1

Cancel Save

% BPGA

Current Compliance

82% Peer % In Spec: 8 of 11

Documents

View All

Training Document.pdf	05-20-2018
MSDS for Coker.pdf	05-12-2018

CMV Projects

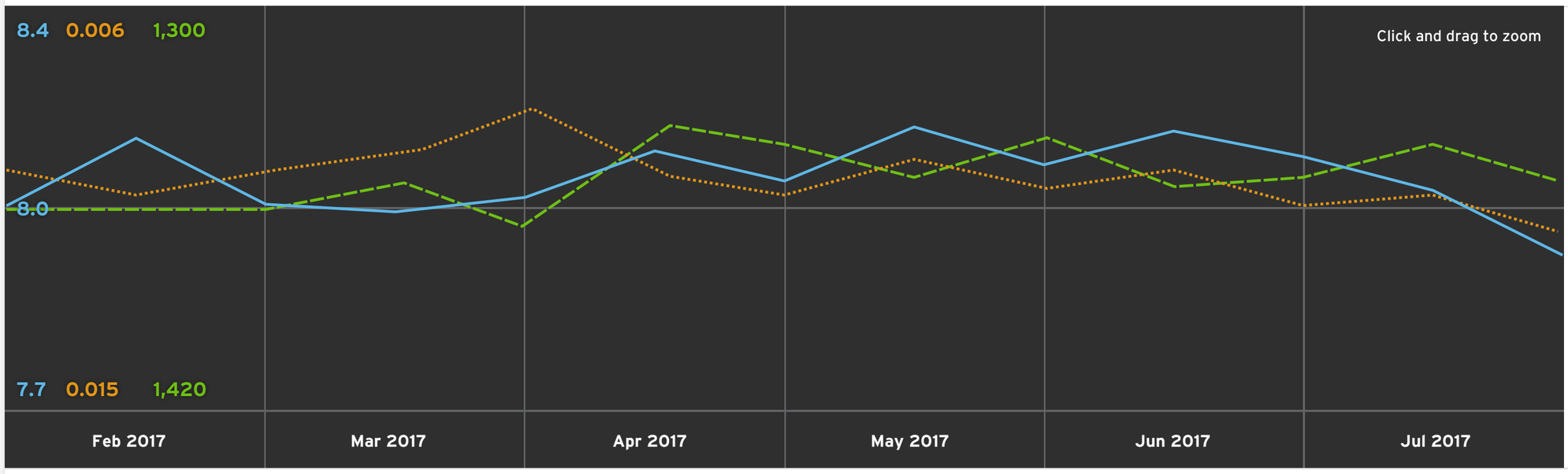
View All

Coker Services	Complete
3D TRASAR for Cokers	Active

Compare Measurements

Compare Measurements

Time Range: Custom | Start Date: 02/01/2017 12:00 PM | End Date: 07/01/2017 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements: Iron | Injection Rate | Measurement C

Measurements Table

All | Exceptions | Alerts

UP TO 3 MORE | Search Measurements

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05-20-18 3:45pm	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	9.82
Tank Level	05-20-18 3:45pm	191	187	200.5	191	88%	81	91	101	121
Target Dosage Rate	05-20-18 3:45pm	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
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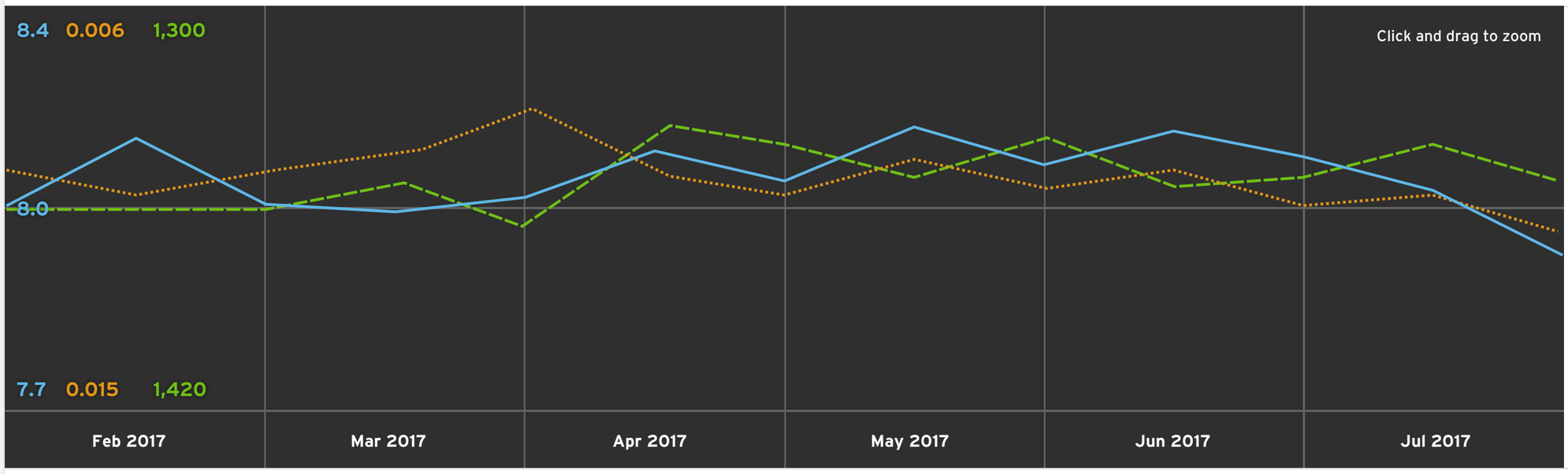
Manganese	05-20-18 3:45pm	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
Injection Rate	05-20-18 3:45pm	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	152.2
Measurement A	05-20-18 3:45pm	165.2	158.2	188.6	145.6	91%	130.6	145.6	165.5	170.6
Measurement B	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement C	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement D	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3

Annotations

Measurement	Value	Type	Note	Time and Date
Iron	11	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/09/2017 8:30 AM
Manganese	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/07/2017 11:10 AM
Measurement Example	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/05/2017 12:30 AM
Measurement Example	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:30 AM
Measurement Example	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM
Measurement Example	4.3	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/09/2017 8:30 AM
Measurement Example	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/07/2017 11:10 AM
Measurement Example	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/05/2017 12:30 AM
Measurement Example	4.3	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:30 AM
Measurement Example	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM

Compare Measurements

Time Range: Custom | Start Date: 02/01/2017 12:00 PM | End Date: 07/01/2017 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements: Iron | Injection Rate | Measurement C

Measurements Table

All | Exceptions | Alerts

UP TO 3 MORE | Search Measurements

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05-20-18 3:45pm	6.5	6.2	99.3	84.2	Compliance based on Low/ Low and High/ High	6.23	7.23	9.23	9.82
Tank Level	05-20-18 3:45pm	191	187	200.5	191		81	91	101	121
Target Dosage Rate	05-20-18 3:45pm	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Iron	05-20-18 3:45pm	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5
Manganese	05-20-18 3:45pm	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
Injection Rate	05-20-18 3:45pm	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	152.2
Measurement A	05-20-18 3:45pm	165.2	158.2	188.6	145.6	91%	130.6	145.6	165.5	170.6
Measurement B	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement C	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement D	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3

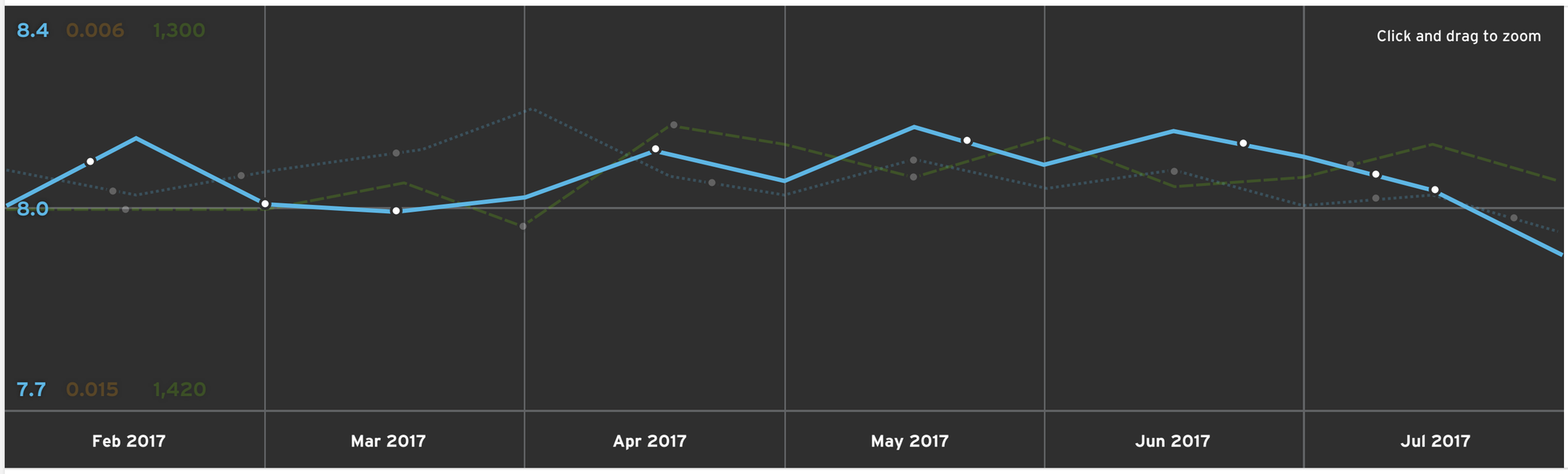
Numeric only eligible for comparison graphing

Annotations

Measurement	Value	Type	Note	Time and Date
Iron	11	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/09/2017 8:30 AM
Manganese	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/07/2017 11:10 AM
Measurement Example	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/05/2017 12:30 AM
Measurement Example	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:30 AM
Measurement Example	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM
Measurement Example	4.3	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/09/2017 8:30 AM
Measurement Example	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/07/2017 11:10 AM
Measurement Example	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/05/2017 12:30 AM
Measurement Example	4.3	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:30 AM
Measurement Example	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM

Compare Measurements

Time Range: Custom | Start Date: 02/01/2017 12:00 PM | End Date: 07/01/2017 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements: Iron | Injection Rate | Measurement C

Measurements Table

All | Exceptions | Alerts

UP TO 3 MORE | Search Measurements

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05-20-18 3:45pm	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	9.82
Tank Level	05-20-18 3:45pm	191	187	200.5	191	88%	81	91	101	121
Target Dosage Rate	05-20-18 3:45pm	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Iron	05-20-18 3:45pm	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5
Manganese	05-20-18 3:45pm	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
Injection Rate	05-20-18 3:45pm	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	152.2
Measurement A	05-20-18 3:45pm	165.2	158.2	188.6	145.6	91%	130.6	145.6	165.5	170.6
Measurement B	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement C	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement D	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3

Annotations

Measurement	Value	Type	Note	Time and Date
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Manganese	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/07/2017 11:10 AM
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Measurement Example	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM
Measurement Example	4.3	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/09/2017 8:30 AM
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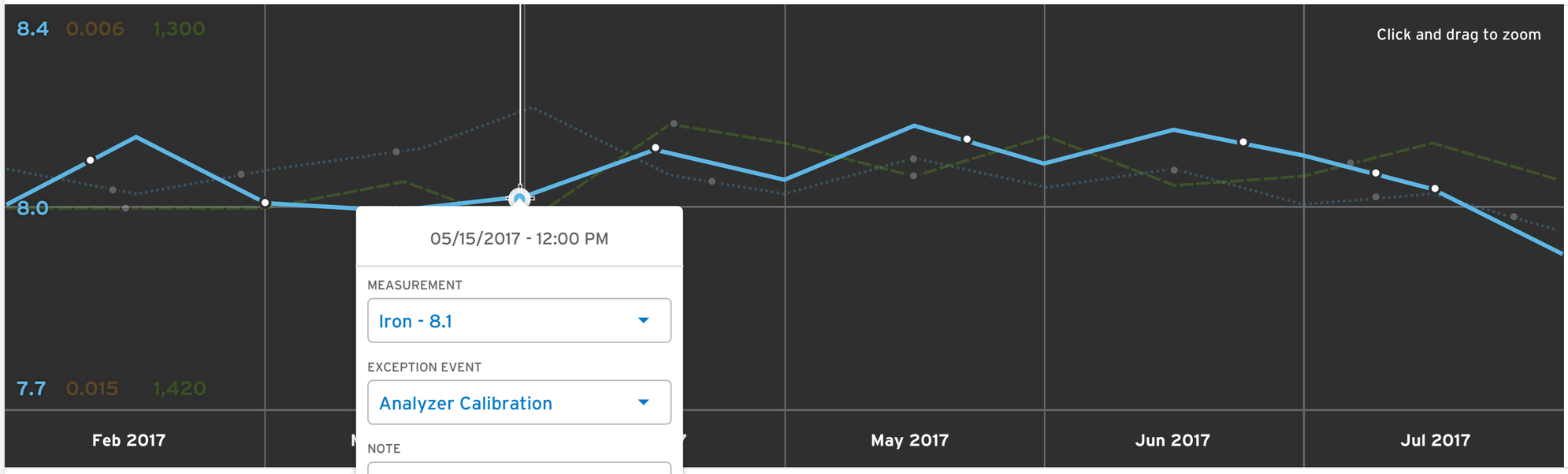
Measurement Example	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM

Compare Measurements

Time Range | Custom | Start Date | 02/01/2017 | 12:00 PM | End Date | 07/01/2017 | 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements | Iron | Measurement C

Measurements Table

All | Exceptions | Alerts

UP TO 3 MORE | Search Measurements

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

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Injection Rate	05-20-18 3:45pm	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	152.2
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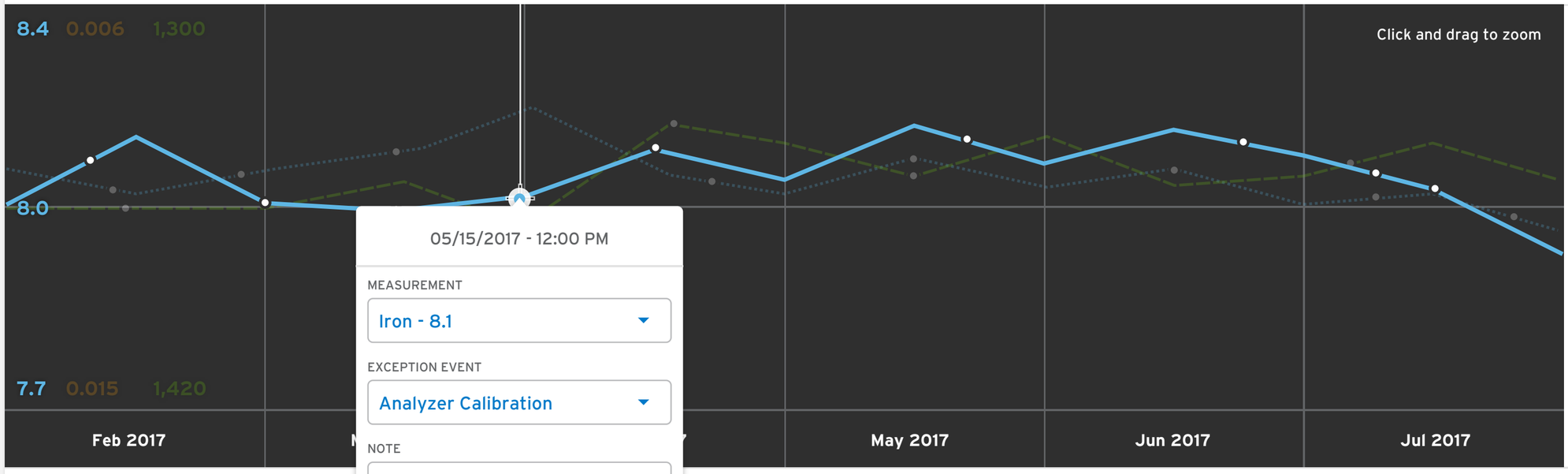
Measurement B	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3

Compare Measurements

Time Range | Custom | Start Date | 02/01/2017 | 12:00 PM | End Date | 07/01/2017 | 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements | Iron | Measurement C

Measurements Table

All | Exceptions | Alerts

UP TO 3 MORE | Search Measurements

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

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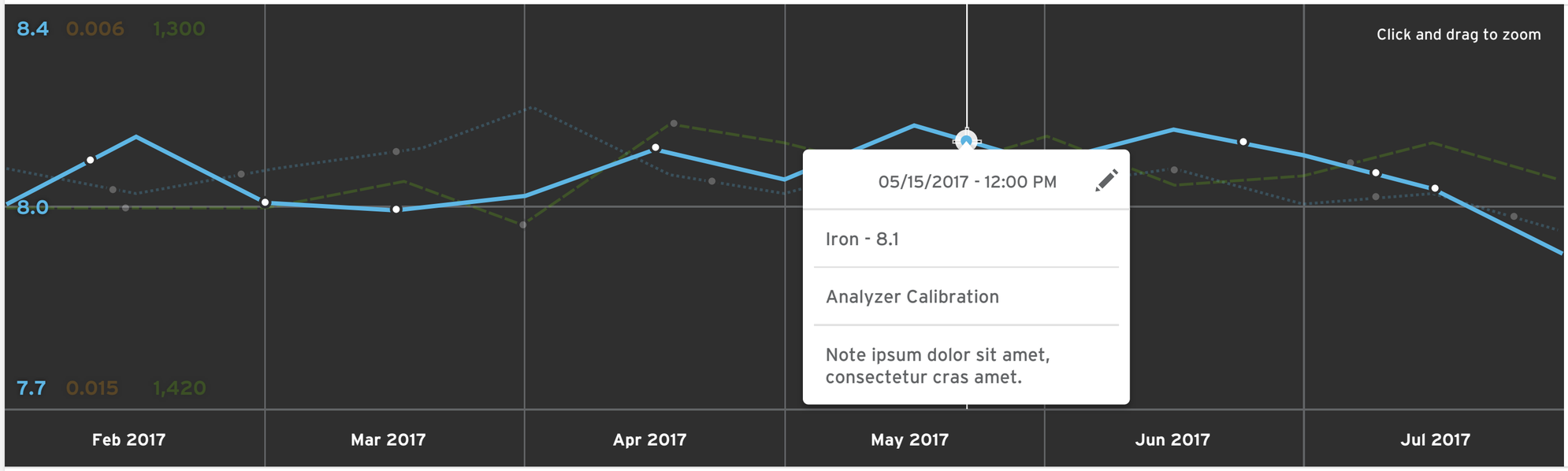
Target Dosage Rate	05-20-18 3:45pm	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Iron	05-20-18 3:45pm	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5
Manganese	05-20-18 3:45pm	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
Injection Rate	05-20-18 3:45pm	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	152.2
Measurement A	05-20-18 3:45pm	165.2	158.2	188.6	145.6	91%	130.6	145.6	165.5	170.6
Measurement B	05-20-18 3:45pm	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3

Compare Measurements

Time Range: Custom | Start Date: 02/01/2017 12:00 PM | End Date: 07/01/2017 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements: Iron | Injection Rate | Measurement C

Measurements Table

Annotations

Measurement	Value	Type	Note	Time and Date
Iron	11	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/09/2017 8:30 AM
Conductivity	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/07/2017 11:10 AM
Copper	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/05/2017 12:30 AM
Sulfate	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:30 AM
Trasar Dose - 3DT	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM
Turbidity	4.3	Analyzer Callibration	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/09/2017 8:30 AM
Zinc	0	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/07/2017 11:10 AM
Total Organic Carbon	22 M	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/05/2017 12:30 AM
Silica	4.3	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:30 AM
Aluminum	86%	[Exception Event Type]	Lorem ipsum dolor sit amet, consectetur adipiscing elit.	06/04/2017 2:00 AM

RefinedKnowledge

Search

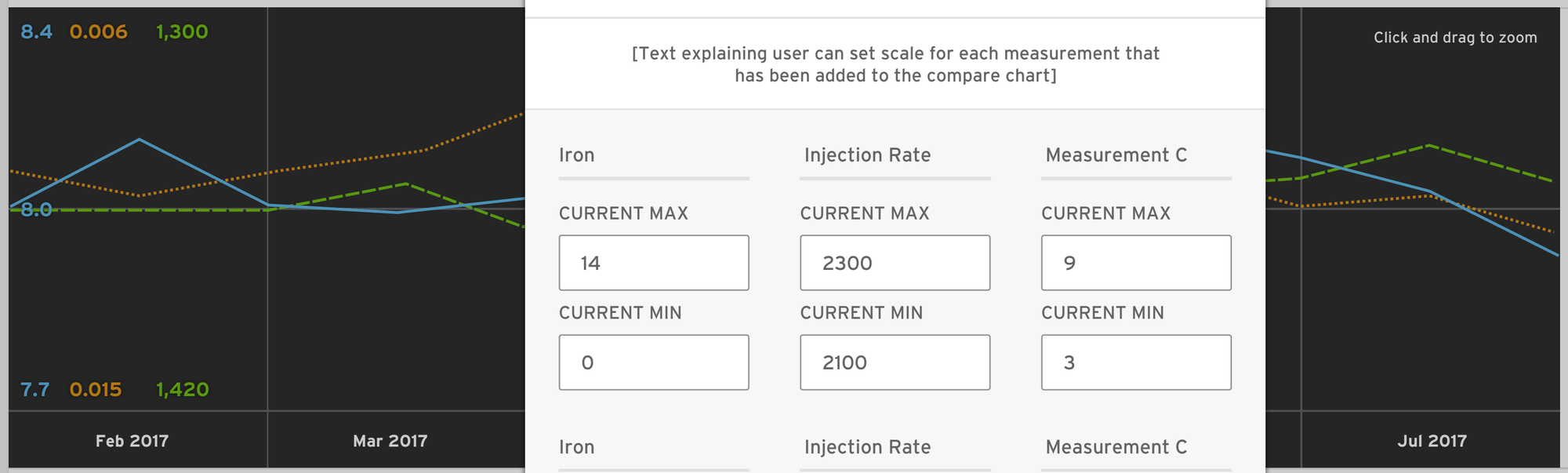
9

JS

Sites > Eagle Ford > BUCHHORN B1 > Compare

Compare Measurements

Time Range | Custom | 12:00 PM | Apply Time Range



Y-Axis

Iron
8.4 - 7.7

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements | Iron | Injec

Set Custom Scales

[Text explaining user can set scale for each measurement that has been added to the compare chart]

Iron	Injection Rate	Measurement C
CURRENT MAX: 14	CURRENT MAX: 2300	CURRENT MAX: 9
CURRENT MIN: 0	CURRENT MIN: 2100	CURRENT MIN: 3

Iron	Injection Rate	Measurement C
CURRENT MAX: 0 - 300 psi	CURRENT MAX: 2300	CURRENT MAX: 9
CURRENT MIN: 0 - 300 psi	CURRENT MIN: 2100	CURRENT MIN: 3

Cancel | Save

Measurements Table

All | Exceptions | Alerts

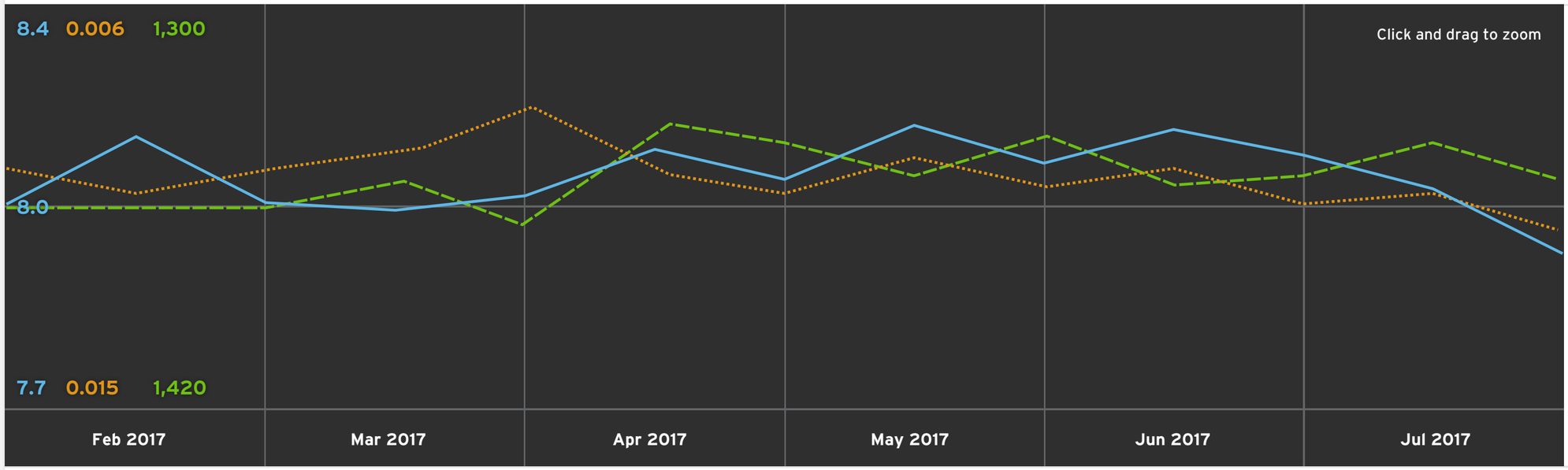
UP TO 3 MORE | Search Measurements

All Measurements (54) | Scale (10) | Fouli

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05-20-18 3:45pm	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	9.82
Tank Level	05-20-18 3:45pm	191	187	200.5	191	88%	81	91	101	121
Target Dosage Rate	05-20-18 3:45pm	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Iron	05-20-18 3:45pm	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5

Compare Measurements

Time Range: Custom | Start Date: 02/01/2017 12:00 PM | End Date: 07/01/2017 12:00 PM | Apply Time Range



Y-Axis | Reset Scale

Iron
8.4 - 7.7 CUSTOM

Injection Rate
0.006 - 0.015

Measurement C
1,300 - 1.420

Display Annotations

Measurements: Iron | Injection Rate | Measurement C

Measurements Table

All | Exceptions | Alerts

UP TO 3 MORE | Search Measurements

All Measurements (54) | Scale (10) | Fouling (20) | Microbio (10)

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Reports

Reports

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Devon Eagle Ford

Weekly Report – 09/05/17 to 09/12/17

Last edited: 01/21/17 at 3:21 PM

Edit

Koch East Texas

Report Name

Last edited: 01/23/17 at 4:01 PM

Edit

Koch East Texas

Report Name

Last edited: 02/28/17 at 10:31 PM

Edit

Devon Eagle Ford

Report Name

Last edited: 03/14/17 at 12:21 AM

Edit

OXY Permian EOR West

Report Name

Last edited: 04/08/17 at 8:49 AM

Edit

Untitled

Report Name

Created: Today – 10/10/17 at 1:45 PM

Edit

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Devon Eagle Ford

Weekly Report – 09/05/17 to 09/12/17

Last edited: 01/21/17 at 3:21 PM

Edit

Koch East Texas

Report Name

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Edit

Koch East Texas

Duplicate

Delete

Report Name

Last edited: 02/28/17 at 10:31 PM

Edit

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Report Name

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Edit

OXY Permian EOR West

Report Name

Last edited: 04/08/17 at 8:49 AM

Edit

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Report Name

Created: Today – 10/10/17 at 1:45 PM

Edit

ADD NEW REPORT

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9 JS

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Devon Eagle Ford

WEEKLY REPORT

Add a headline

B I U S^x S_x S B B B

Add comments

NALCO Champion
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Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

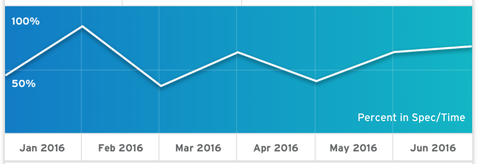
DRAG TO ADD

Devon Eagle Ford Tiles

Today

TLM Overivew

Total Units	# Offline	Current Health
10	4	81%

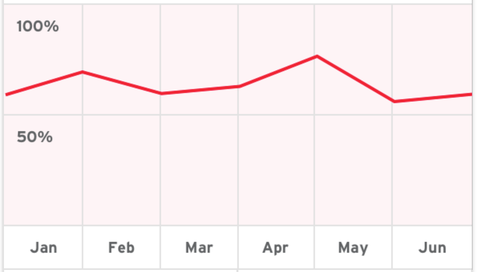


Last 6 Months

MCCURDY A1

Asset Intergrity

61% Flow Assurance 90% Phase Seperation 73%



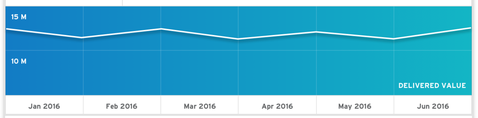
KPI | Last 6 Mo.

Yesterday - July 20, 2017

CMV Projects

Active 52

Alerts
3 Overdue
3 No Defined Value
Potential Value: $45.6 M
YTD Delivered Value: $12.6 M



Last 6 Months

BUCHHORN B1

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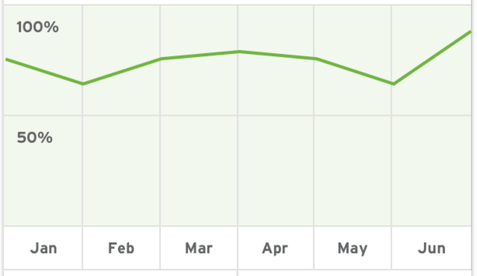

KPI | Last 6 Mo.

RefinedKnowledge

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Devon Eagle Ford

WEEKLY REPORT

Add a headline

Add comments

DROP TO ADD DATA

DROP TO ADD DATA

TLM Overivew

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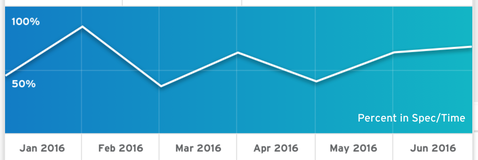

Last 6 Months

DRAG TO ADD

Devon Eagle Ford Tiles

Today

CCURDY A1

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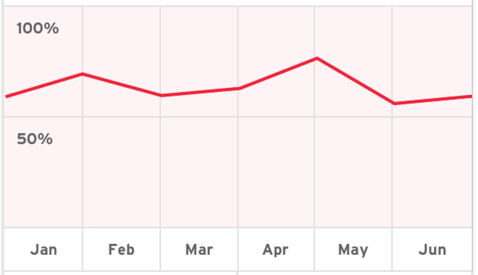

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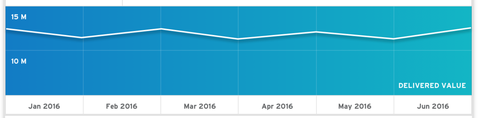

Last 6 Months

BUCHHORN B1

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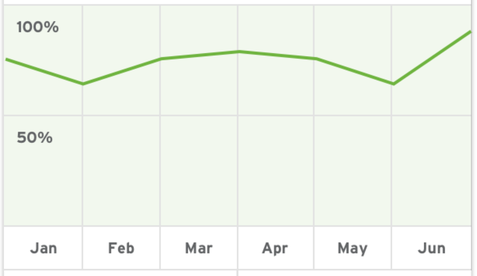

KPI | Last 6 Mo.

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Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

Devon Eagle Ford

WEEKLY REPORT

TLM Overview at Eagle Ford – 09/17/2017

'BUCHHORN B1 has been running well within target cycles the past few weeks. The blow down had been proactively opened a few weeks ago to attempt to lower turbidity and ATP bacteria counts which have been reading high despite low plate bacteria counts. These KPIs are each at or above their upper target again, therefore some extra blow down is recommended. I would open the blowdown by 5-10% to attempt to reduce conductivity to 1100.

TLM Overview

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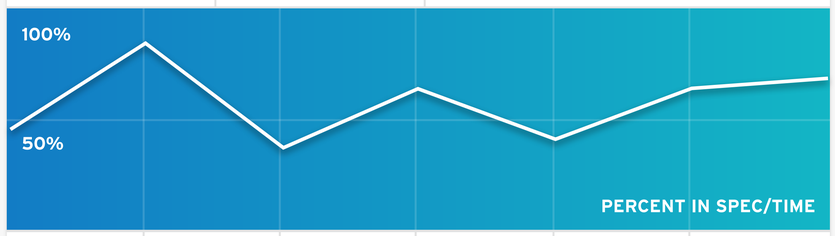

Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1

SNAPSHOT AT 8:21 PM, 06/21/2017

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Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

DRAG TO ADD

Oclan Naperville Tiles

Today

MCCURDY A1

Asset Intergrity

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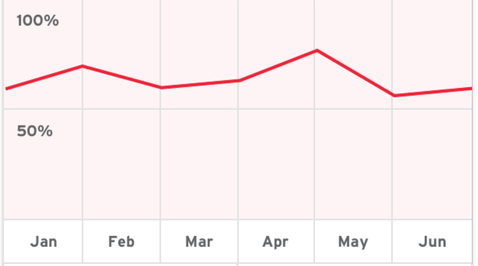

KPI | Last 6 Mo.

Yesterday - July 20, 2017

CMV Projects

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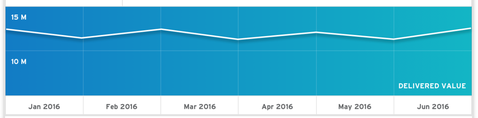

Last 6 Months

BUCHHORN B1

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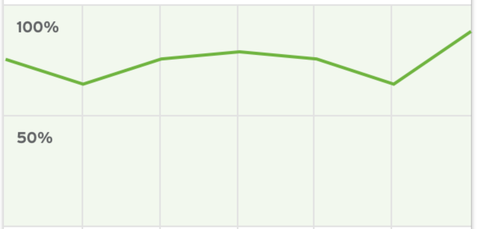
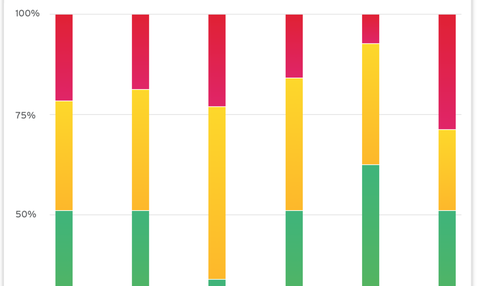


KPI | Last 6 Mo.

Wednesday - July 19, 2017

Pump Efficiency Variance



Devon Eagle Ford

WEEKLY REPORT

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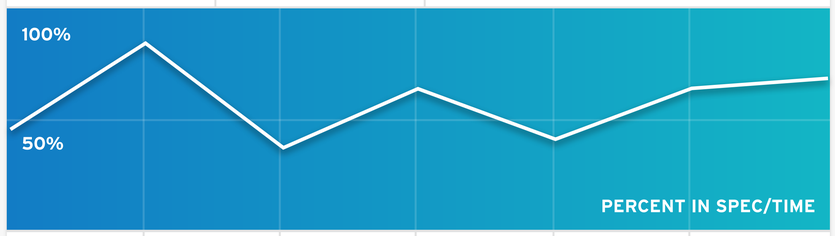

Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1

SNAPSHOT AT 8:21 PM, 06/21/2017

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Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

DRAG TO ADD

Oclan Naperville Tiles

Today

MCCURDY A1

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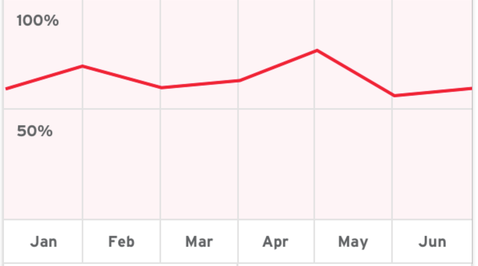

KPI | Last 6 Mo.

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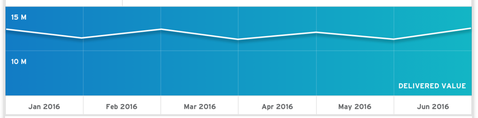

Last 6 Months

BUCHHORN B1

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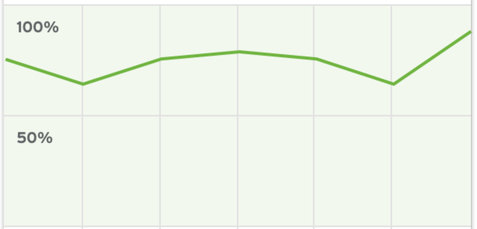

KPI | Last 6 Mo.

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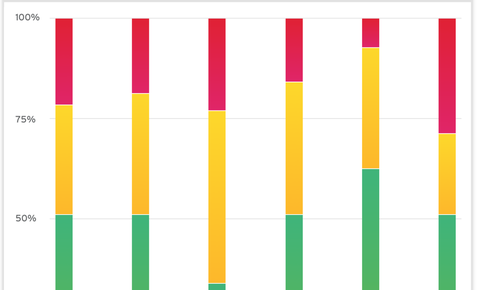

RefinedKnowledge

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Devon Eagle Ford

WEEKLY REPORT

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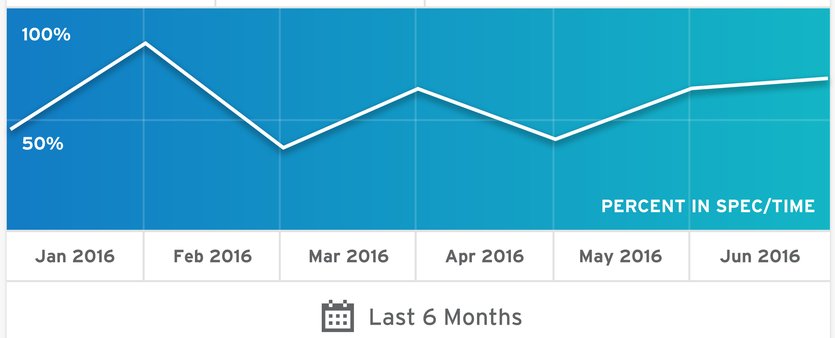

Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1

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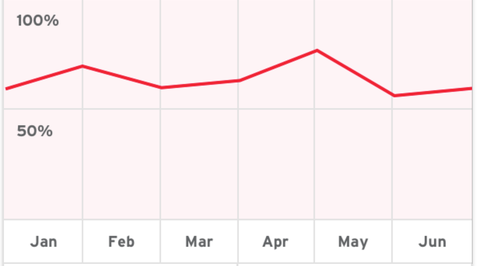

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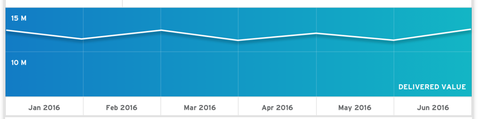

Last 6 Months

BUCHHORN B1

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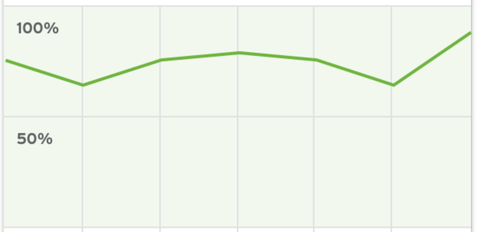
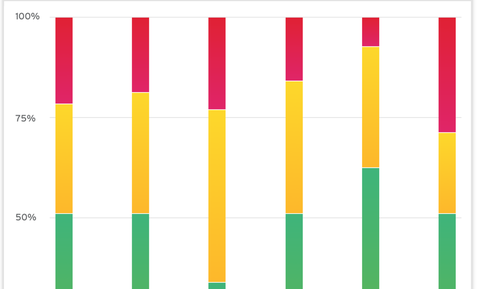


KPI | Last 6 Mo.

Wednesday - July 19, 2017

Pump Efficiency Variance



RefinedKnowledge

Close

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Devon Eagle Ford

WEEKLY REPORT

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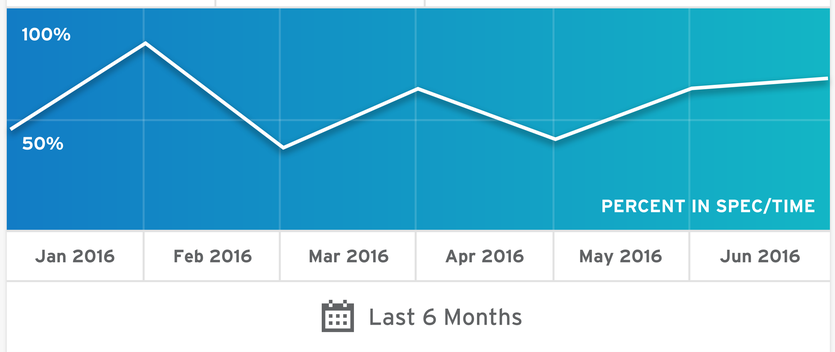

SITES > DEVON EAGLE FORD > BUCHHORN B1

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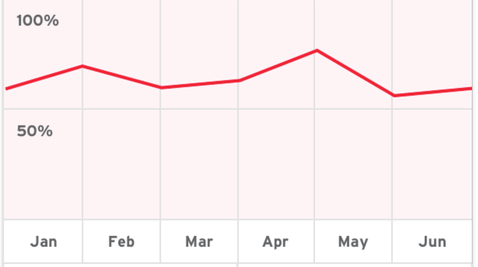

KPI | Last 6 Mo.

Yesterday - July 20, 2017

CMV Projects

Active 52

Alerts
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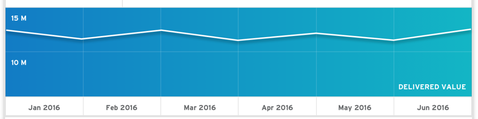

Last 6 Months

BUCHHORN B1

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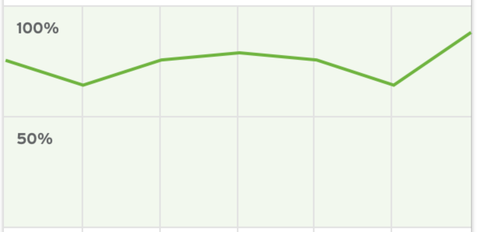
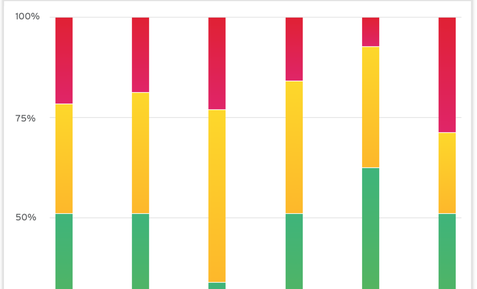


KPI | Last 6 Mo.

Wednesday - July 19, 2017

Pump Efficiency Variance



RefinedKnowledge

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Devon Eagle Ford

WEEKLY REPORT

3DT Health at Naperville - 09/17/2017 |

Done

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TLM Overview

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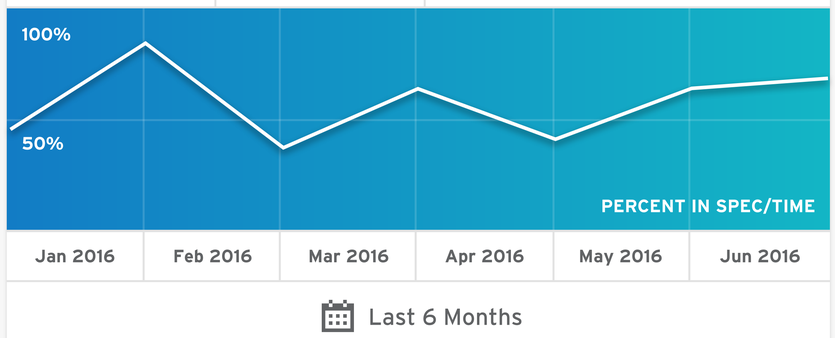
10	4	81%



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Today

MCCURDY A1

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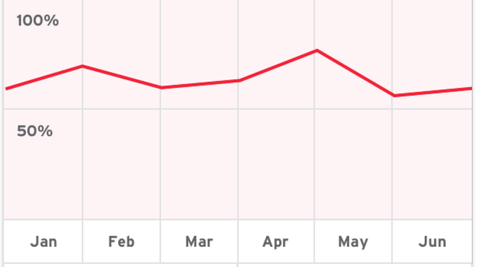

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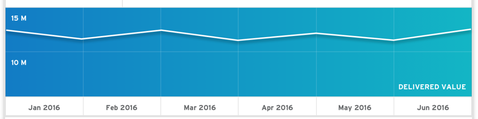

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BUCHHORN B1

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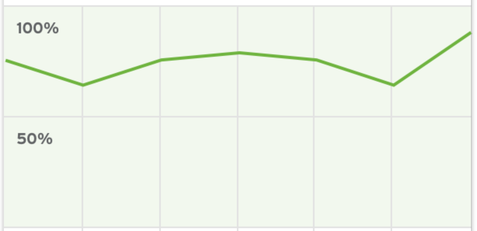

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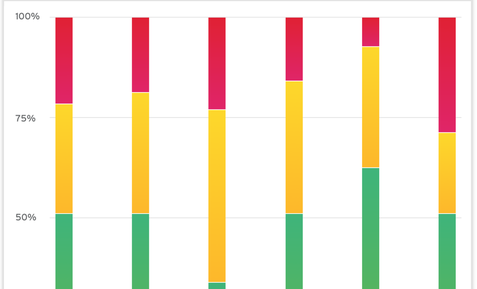

Devon Eagle Ford

WEEKLY REPORT

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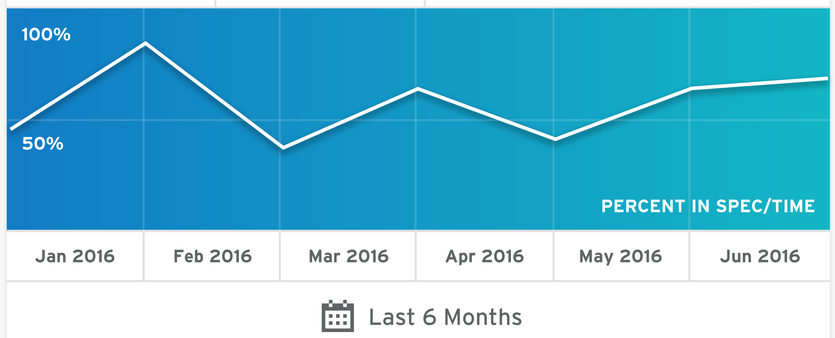

SITES > DEVON EAGLE FORD > BUCHHORN B1

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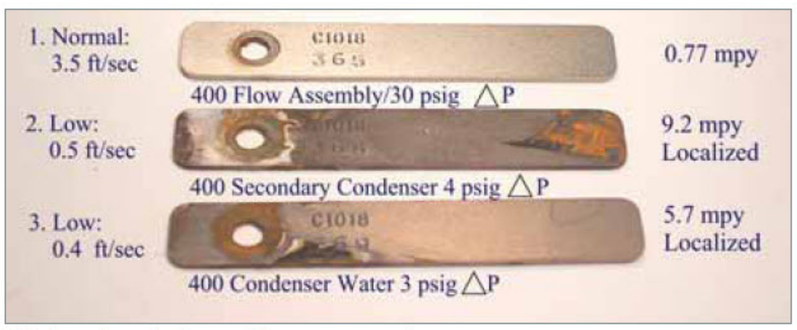
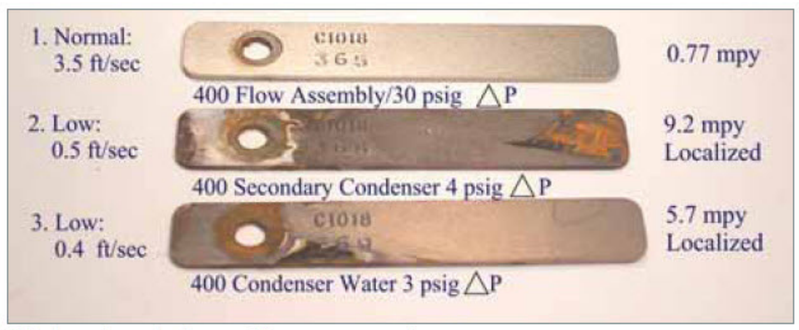


This photo shows the impact of flow rate on corrosion coupons.



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Refer to images attached for examples.

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Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

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Today

MCCURDY A1

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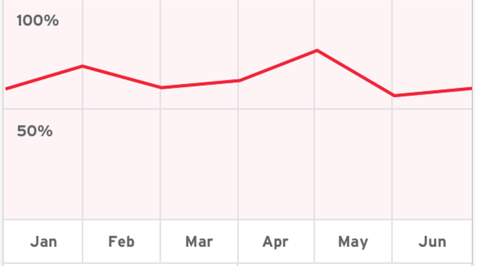

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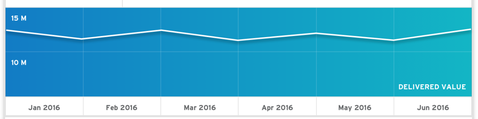

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BUCHHORN B1

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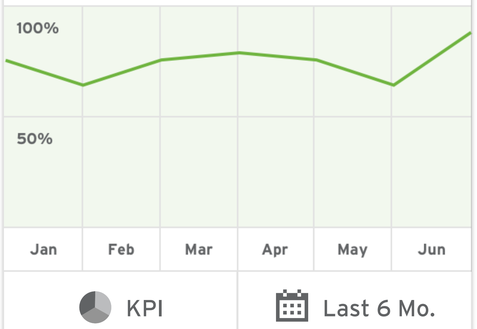
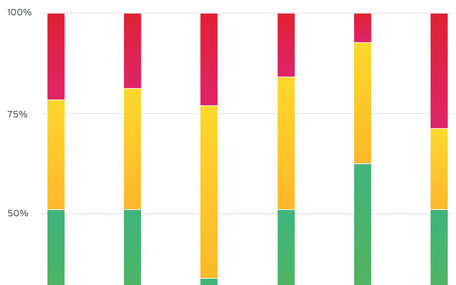


Wednesday - July 19, 2017

Pump Efficiency Variance



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Devon Eagle Ford

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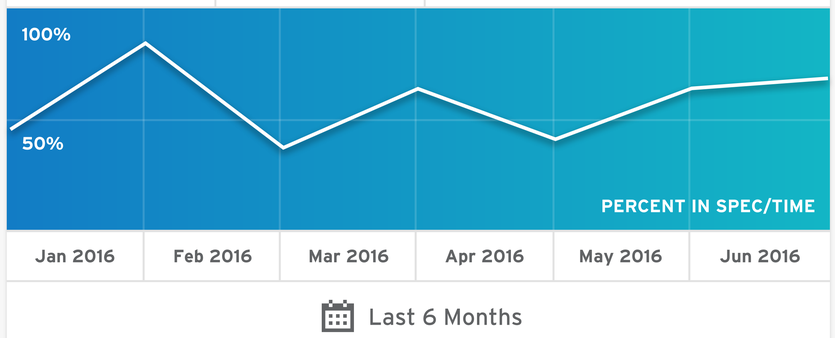

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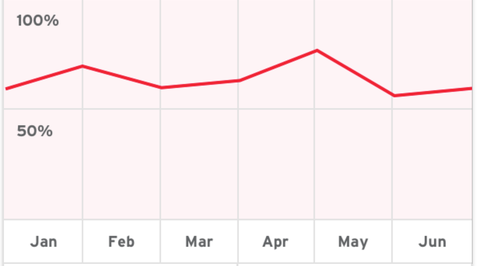

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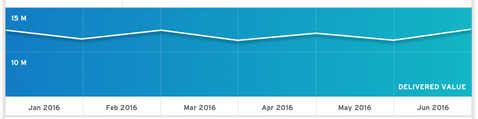

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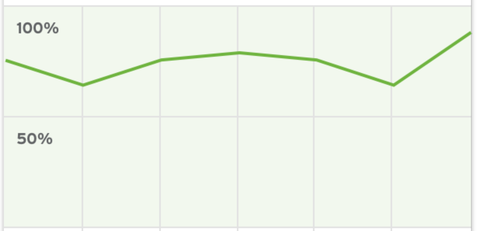

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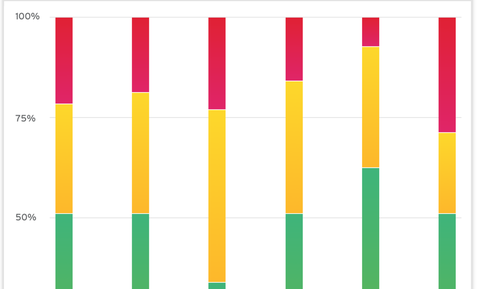

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B I U S^x S_x S B B B

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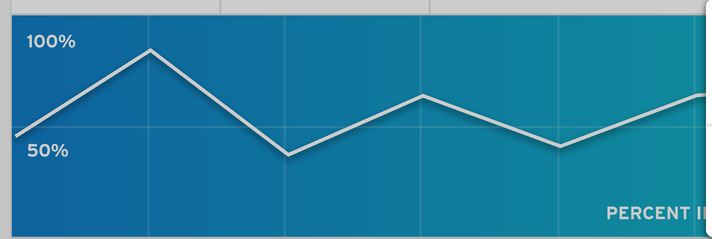

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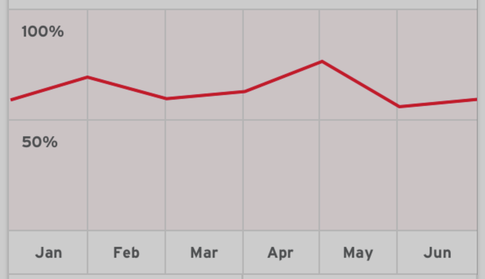

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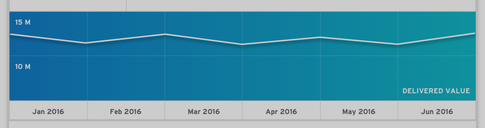

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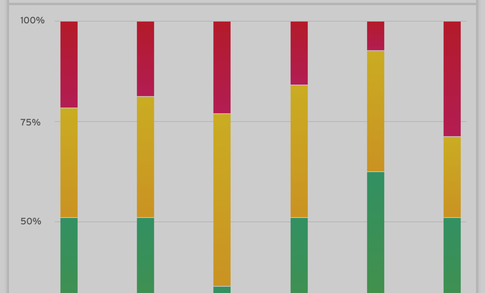

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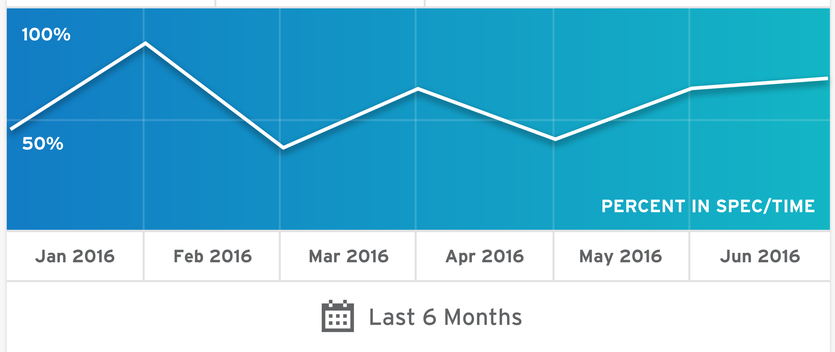

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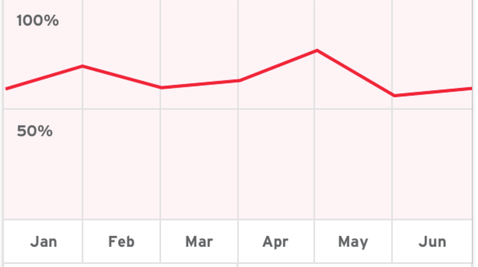

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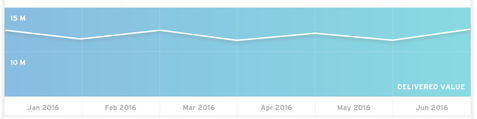

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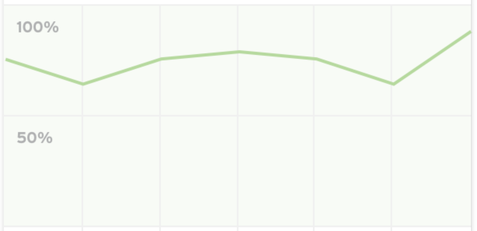

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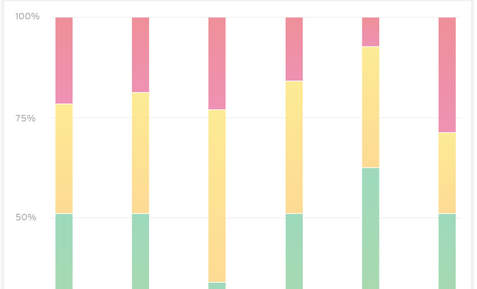

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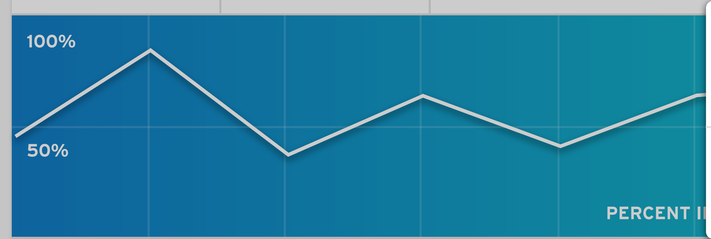

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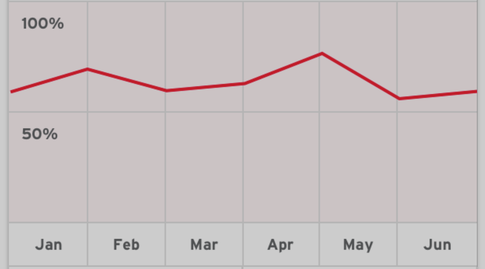

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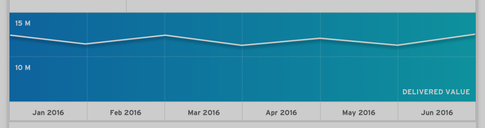

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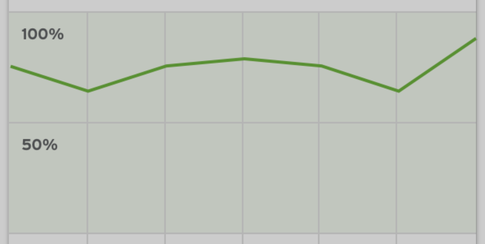

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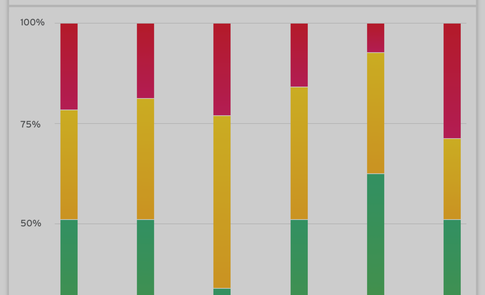

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BUCHHORN B1 Measurements

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05/20/17 3:45 PM	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	8.82
Tank Level	04/19/17 4:21 PM	191	187	200.5	191	88%	81	91	101	121
Target Dosage Rate	04/16/17 2:11 PM	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Iron	05/20/17 3:45 PM	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5
Manganese	03/30/17 2:42 PM	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
Injection Rate	03/30/17 8:32 AM	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	157.2
Measurement A	03/17/17 1:29 PM	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement B	03/02/17 6:39 PM	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Measurement C	02/36/17 3:20 PM	191	187	200.5	191	88%	81	91	101	121

KPI | Last 6 Months

SITES > OCLAN NAPERV

SNAPSHOT A

DROP TO ADD DATA

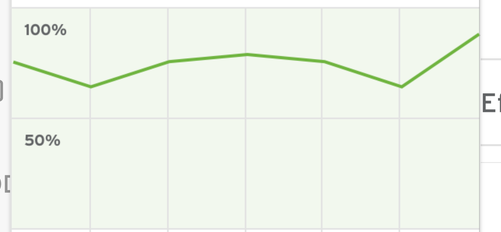
DROP TO ADD DATA

DROP TO ADD

BUCHHORN B1

Asset Intergrity

86% Flow Assurance 90% Phase Seperation 73%

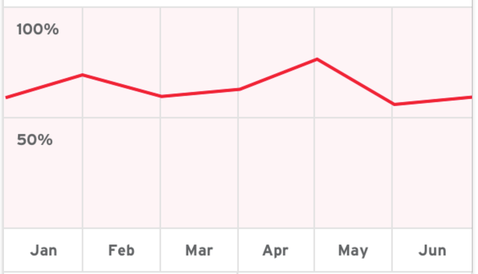


KPI | Last 6 Mo.

DRAG TO ADD

Devon Eagle Ford Tiles

61% Flow Assurance 90% Phase Seperation 73%



KPI | Last 6 Mo.

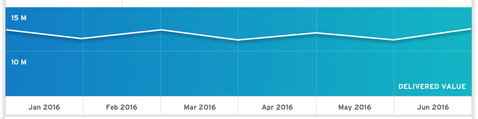
Yesterday - July 20, 2017

CMV Projects

Active 52

Alerts
3 Overdue
3 No Defined Value

Potential Value: $45.6 M
YTD Delivered Value: $12.6 M



Last 6 Months

Wednesday - July 19, 2017

Efficiency Variance

KPI | Last 6 Mo.

Devon Eagle Ford

WEEKLY REPORT

TLM Overview at Eagle Ford – 09/17/2017

'BUCHHORN B1 has been running well within target cycles the past few weeks. The blow down had been proactively opened a few weeks ago to attempt to lower turbidity and ATP bacteria counts which have been reading high despite low plate bacteria counts. These KPIs are each at or above their upper target again, therefore some extra blow down is recommended. I would open the blowdown by 5-10% to attempt to reduce conductivity to 1100.

DROP TO ADD DATA

DROP TO ADD DATA

DROP TO ADD

BUCHHORN B1 Measurements

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05/20/17 3:45 PM	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	8.82
Tank Level	04/19/17 4:21 PM	191	187	200.5	191	88%	81	91	101	121
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Iron	05/20/17 3:45 PM	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5
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KPI | Last 6 Months

SITES > OCLAN NAPERVILLE > COKER CT 99907

SNAPSHOT AT 8:21 PM, 06/21/2017

DROP TO ADD DATA

DROP TO ADD DATA

DROP TO ADD DATA

NALCO Champion
An Ecolab Company

Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

DRAG TO ADD

Devon Eagle Ford Tiles

61% Flow Assurance 90% Phase Seperation 73%

100% 50%

Feb Mar Apr May Jun

KPI | Last 6 Mo.

BUCHHORN B1

Asset Intergrity

86% Flow Assurance 90% Phase Seperation 73%

100% 50%

Jan Feb Mar Apr May Jun

KPI | Last 6 Mo.

Yesterday - July 20, 2017

Projects

Alerts

3 Overdue

3 No Defined Value

Potential Value: $45.6 M

YTD Delivered Value: $12.6 M

DELIVERED VALUE

Last 6 Months

Wednesday - July 19, 2017

Pump Efficiency Variance

100% 75% 50% 25% 0%

Jan Feb Mar Apr May Jun

KPI | Last 6 Mo.

Devon Eagle Ford

WEEKLY REPORT

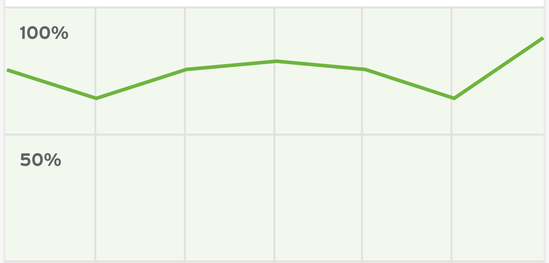
TLM Overview at Eagle Ford – 09/17/2017

'BUCHHORN B1 has been running well within target cycles the past few weeks. The blow down had been proactively opened a few weeks ago to attempt to lower turbidity and ATP bacteria counts which have been reading high despite low plate bacteria counts. These KPIs are each at or above their upper target again, therefore some extra blow down is recommended. I would open the blowdown by 5-10% to attempt to reduce conductivity to 1100.

BUCHHORN B1

Asset Intergrity

86% Flow Assurance 90% Phase Seperation 73%



KPI | Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1
SNAPSHOT AT 8:21 PM, 06/21/2017

BUCHHORN B1 Measurements

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05/20/17 3:45 PM	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	8.82
Tank Level	04/19/17 4:21 PM	191	187	200.5	191	88%	81	91	101	121
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Manganese	03/30/17 2:42 PM	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
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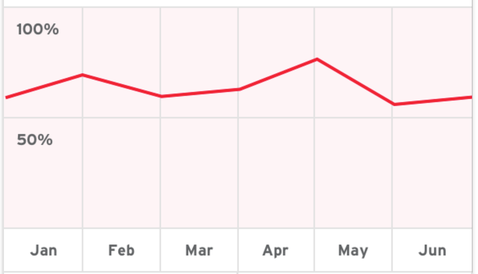
KPI | Last 6 Months

SITES > OCLAN NAPERVILLE > COKER CT 99907
SNAPSHOT AT 8:21 PM, 06/21/2017

DRAG TO ADD

Oclan Naperville Tiles

61% Flow Assurance 90% Phase Seperation 73%



KPI | Last 6 Mo.

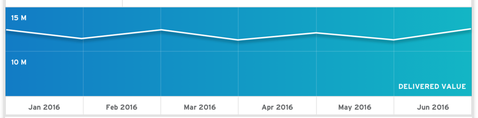
Yesterday - July 20, 2017

CMV Projects

Active 52

Alerts
3 Overdue
3 No Defined Value

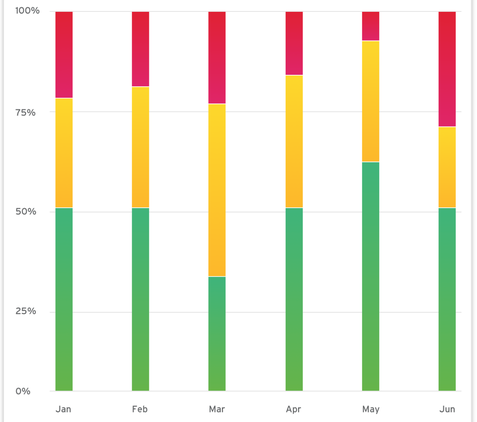
Potential Value: $45.6 M
YTD Delivered Value: $12.6 M



Last 6 Months

Wednesday - July 19, 2017

Pump Efficiency Variance



KPI | Last 6 Mo.

Devon Eagle Ford

WEEKLY REPORT

Export to PDF

Remove All Tiles

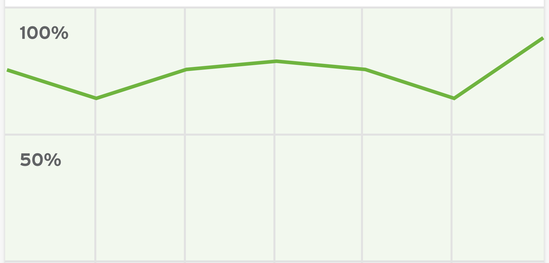
TLM Overview at Eagle Ford – 09/17/2017

'BUCHHORN B1 has been running well within target cycles the past few weeks. The blow down had been proactively opened a few weeks ago to attempt to lower turbidity and ATP bacteria counts which have been reading high despite low plate bacteria counts. These KPIs are each at or above their upper target again, therefore some extra blow down is recommended. I would open the blowdown by 5-10% to attempt to reduce conductivity to 1100.

BUCHHORN B1

Asset Intergrity

86% Flow Assurance 90% Phase Seperation 73%



KPI | Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1

SNAPSHOT AT 8:21 PM, 06/21/2017

BUCHHORN B1 Measurements

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05/20/17 3:45 PM	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	8.82
Tank Level	04/19/17 4:21 PM	191	187	200.5	191	88%	81	91	101	121
Target Dosage Rate	04/16/17 2:11 PM	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Iron	05/20/17 3:45 PM	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5
Manganese	03/30/17 2:42 PM	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
Injection Rate	03/30/17 8:32 AM	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	157.2
Measurement A	03/17/17 1:29 PM	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement B	03/02/17 6:39 PM	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Measurement C	02/36/17 3:20 PM	191	187	200.5	191	88%	81	91	101	121

KPI | Last 6 Months

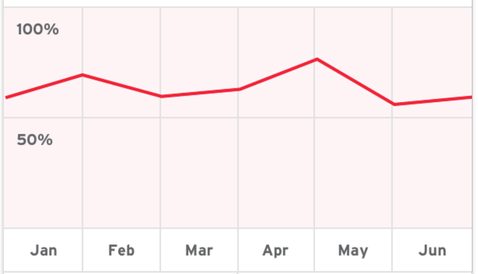
SITES > OCLAN NAPERVILLE > COKER CT 99907

SNAPSHOT AT 8:21 PM, 06/21/2017

DRAG TO ADD

Oclan Naperville Tiles

61% Flow Assurance 90% Phase Seperation 73%



KPI | Last 6 Mo.

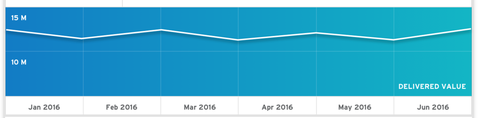
Yesterday - July 20, 2017

CMV Projects

Active 52

Alerts
3 Overdue
3 No Defined Value

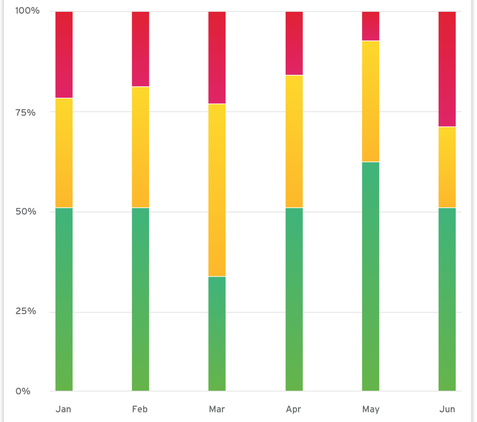
Potential Value: $45.6 M
YTD Delivered Value: $12.6 M



Last 6 Months

Wednesday - July 19, 2017

Pump Efficiency Variance



KPI | Last 6 Mo.

RefinedKnowledge

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Devon Eagle Ford

WEEKLY REPORT

TLM Overview at Eagle Ford – 09/17/2017

B I U

'BUCHHORN B1 has been
ago to attempt to lower
are each at or above the
attempt to reduce condu

BUCHHORN B1

Asset Intergrity

86% Flow Assuranc 90%

100%
50%
Jan Feb Mar Ap

KPI

SITES > DEVON EAGLE FO
SNAPSHOT AT

DRAG TO ADD

Oclan Naperville Tiles

Flow Assurance 90% Phase Seperation 73%

Feb Mar Apr May Jun

KPI Last 6 Mo.

Yesterday - July 20, 2017

Projects

Alerts
3 Overdue
3 No Defined Value
Potential Value: $45.6 M
YTD Delivered Value: $12.6 M

Last 6 Months

Wednesday - July 19, 2017

Efficiency Variance

75%
50%
25%
0%
Jan Feb Mar Apr May Jun

KPI Last 6 Mo.

Export Report to PDF

Devon Eagle Ford

WEEKLY REPORT

TLM Overview at Eagle Ford – 09/17/2017

'Cooling Tower 1 has been running well within target cycles the past few weeks. The blow down had been proactively opened a few weeks ago to attempt to lower turbidity and ATP bacteria counts which have been reading high despite low plate bacteria counts. These KPIs are each at or above their upper target again, therefore some extra blow down is recommended. I would open the blowdown by 5-10% to attempt to reduce conductivity to 1100.

BUCHHORN B1

Asset Intergrity

86% Flow Assurance 90% Phase Seperation 73%

100%

Download Share

BUCHHORN B1 Measurements

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05/20/17 3:45 PM	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	8.82
Tank Level	04/19/17 4:21 PM	191	187	200.5	191	88%	81	91	101	121
Target Dosage Rate	04/16/17 2:11 PM	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Iron	05/20/17 3:45 PM	1.0	0.87	1.5	0.9	96%	0.2	0.5	2.5	3.5
Manganese	03/30/17 2:42 PM	45.6	42.3	48.6	45.6	92%	31.6	35.6	40.6	46.6
Injection Rate	03/30/17 8:32 AM	136.2	133.5	145.2	132.2	90%	110.2	126.2	146.2	157.2
Measurement A	03/17/17 1:29 PM	2.3	1.9	2.9	1.3	89%	0.3	1.3	3.3	4.3
Measurement B	03/02/17 6:39 PM	25.5	23.2	28.1	25.5	95%	11.5	15.5	20.5	25.5
Measurement C	02/36/17 3:20 PM	191	187	200.5	191	88%	81	91	101	121

KPI Last 6 Months

SITES > OCLAN NAPERVILLE > COKER CT 99907
SNAPSHOT AT 8:21 PM, 06/21/2017

NALCO Champion
An Ecolab Company

Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

RefinedKnowledge

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Devon Eagle Ford

WEEKLY REPORT

TLM Overview at Eagle Ford – 09/17/2017

B I U

'BUCHHORN B1 has been
ago to attempt to lower
are each at or above the
attempt to reduce condu

BUCHHORN B1

Asset Intergrity

86% Flow Assuranc 90%

100%
50%

Jan Feb Mar Ap

KPI Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1
SNAPSHOT AT 8:21 PM, 06/21/2017

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[user first and last name who has access to site]
[user first and last name who has access to site]
[user first and last name who has access to site]

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Richelda.Zirrof @nalco.com Add

- @ecolab.com
- @nalco.com
- @nalcowater.com

Cancel Send

BUCHHORN B1 Measurements

Name	Last Update	Value	Min	Max	Mean	Compli.	Low /Low	Low	High	High /High
Draw Down Rate	05/20/17 3:45 PM	6.5	6.2	99.3	84.2	90%	6.23	7.23	9.23	8.82
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KPI Last 6 Months

SITES > OCLAN NAPERVILLE > COKER CT 99907
SNAPSHOT AT 8:21 PM, 06/21/2017

DRAG TO ADD

Oclan Naperville Tiles

Flow Assurance 90% Phase Seperation 73%

Feb Mar Apr May Jun

KPI Last 6 Mo.

Yesterday - July 20, 2017

Projects

Alerts
3 Overdue
3 No Defined Value
Potential Value: $45.6 M
YTD Delivered Value: $12.6 M

Last 6 Months

Wednesday - July 19, 2017

Pump Efficiency Variance

100% 75% 50% 25% 0%

Jan Feb Mar Apr May Jun

KPI Last 6 Mo.

NALCO Champion
An Ecolab Company

Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

RefinedKnowledge

Close

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Devon Eagle Ford

WEEKLY REPORT

TLM Overview at Eagle Ford – 09/17/2017

B I U

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are each at or above the
attempt to reduce condu

BUCHHORN B1

Asset Intergrity

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Flow Assuranc
90%

100%

50%

Jan Feb Mar Ap

KPI Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1
SNAPSHOT AT 8:21 PM, 06/21/2017

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Now that your update has been saved to Documents, share it with members of your team and other stakeholders by selecting contacts or adding new email addresses from the panels below.

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- [ ] Chemical Team
- [x] CMV Project 1
- [x] Sales – Houston Metro

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Emily.Pearl @ecolab.com Add

- Richelda.Zirrof@nalco.com
- Jerry.Thompson@ecolab.com
- Lula.Dawritt@nalco.com

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DRAG TO ADD

Oclan Naperville Tiles

Flow Assurance 90% Phase Seperation 73%

Feb Mar Apr May Jun

KPI Last 6 Mo.

Yesterday - July 20, 2017

Projects

Alerts
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Last 6 Months

Wednesday - July 19, 2017

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Jan Feb Mar Apr May Jun

KPI Last 6 Mo.

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KPI Last 6 Months

SITES > OCLAN NAPERVILLE > COKER CT 99907
SNAPSHOT AT 8:21 PM, 06/21/2017

NALCO Champion
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Mike Jerla – mjerla@ecolab.com | 09/18/17 at 10:23 AM

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9 JS

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Devon Eagle Ford

WEEKLY REPORT

TLM Overview at Eagle Ford – 09/17/2017

B I U S^x S_x S B B B

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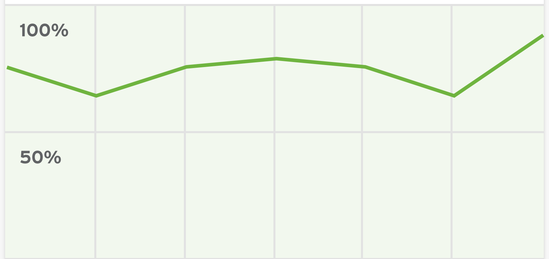
BUCHHORN B1

Asset Intergrity

86%

Flow Assurance 90%

Phase Seperation 73%



KPI | Last 6 Months

SITES > DEVON EAGLE FORD > BUCHHORN B1

SNAPSHOT AT 8:21 PM, 06/21/2017

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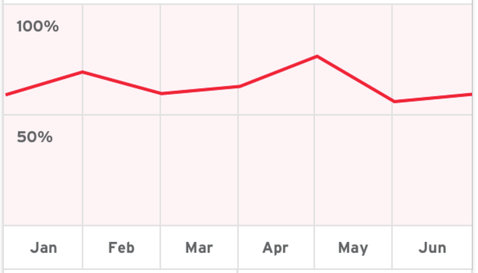
DRAG TO ADD

Oclan Naperville Tiles

61%

Flow Assurance 90%

Phase Seperation 73%



KPI | Last 6 Mo.

Yesterday - July 20, 2017

CMV Projects

Active 52

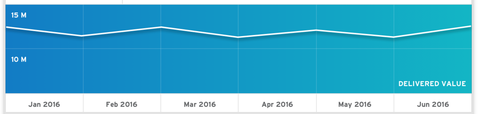
Alerts

3 Overdue

3 No Defined Value

Potential Value: $45.6 M

YTD Delivered Value: $12.6 M



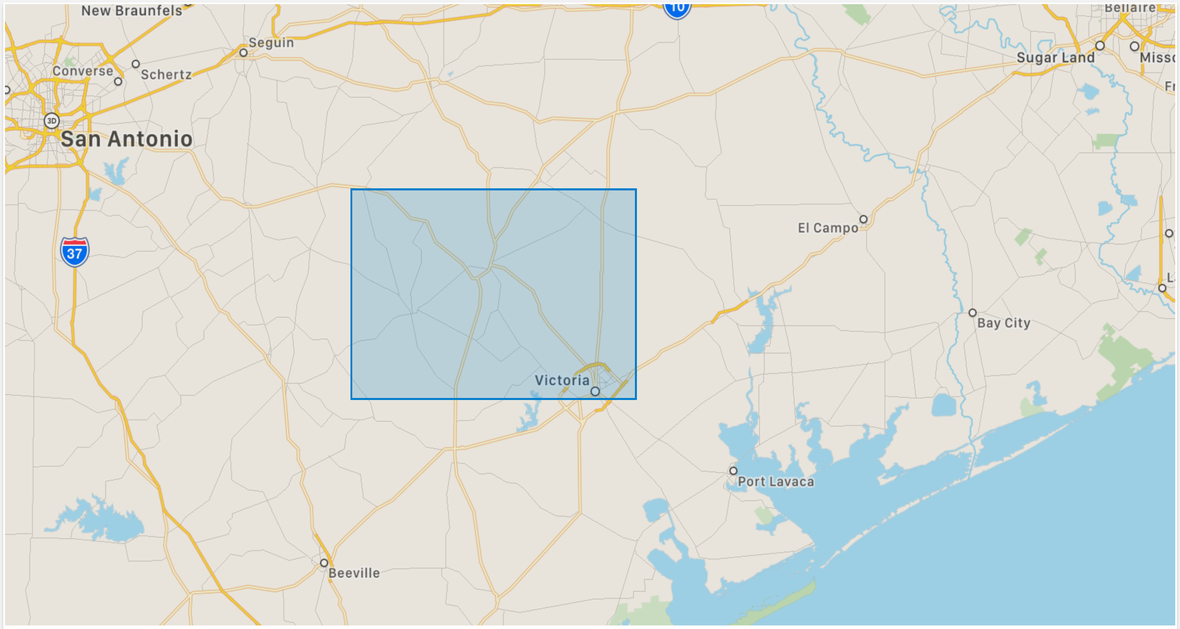
Last 6 Months

Wednesday - July 19, 2017

Pump Efficiency Variance

Site Settings Rep View

Site Settings



Location — DeWitt County, TX., USA 77954 (NA Region)

User Permissions — 8 Internal/Nalco Users — 10 Customer Users

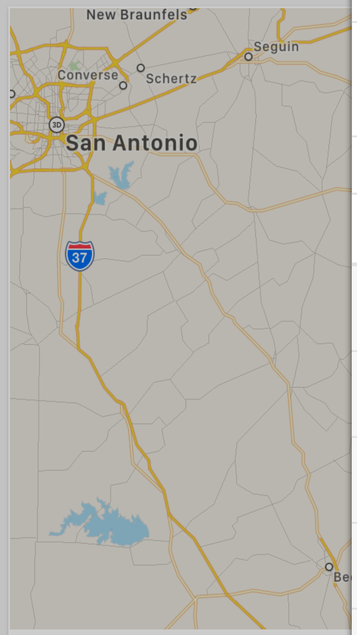
Preferred Document Language — English

Site Time Zone — Central Standard (CST)

Asset Tree — 86 Active Assets

Site Products — 28 Products in Use

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Manage Customer Access | Review Internal Users

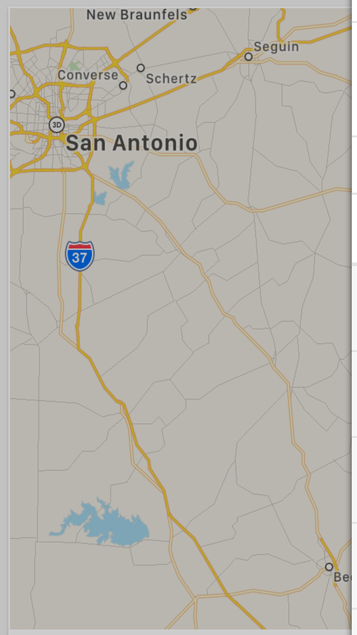
Don't see who you're looking for? Request to add a customer to the site.

Search Users by Name

Name	Sites	Company/Division	Areas/Units	Grant Same Access As
Belinda Tulle	Sees 1 site	Devon	Not set	Select
Richard Kim	Pending	Devon	6 areas, 2 units	Select
Lila Shephard	Sees 2 sites	Devon	4 areas, 22 units	Select
Windsor Roberts	Sees 1 site	Devon	1 area, 8 units	Select
Ro Him	Sees 1 site	EcoLab	12 areas, 30 units	Select
Brian Walker	Sees 3 sites	EcoLab	7 areas, 14 units	Select
Antonio Jensen	Sees 2 sites	EcoLab	4 areas, 2 units	Select
Jerome Payne	Pending	EcoLab	1 area, 3 units	Select

Cancel Next

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

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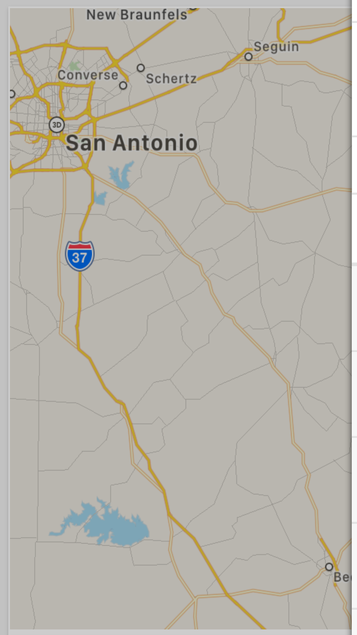
Lila Shephard	Sees 2 sites	Devon	4 areas, 22 units	Select
Windsor Roberts	Sees 1 site	Devon	1 area, 8 units	Select
Ro Him	Sees 1 site	EcoLab	12 areas, 30 units	Select
Brian Walker	Sees 3 sites	EcoLab	7 areas, 14 units	Select
Antonio Jensen	Sees 2 sites	EcoLab	4 areas, 2 units	Select
Jerome Payne	Pending	EcoLab	1 area, 3 units	Select

Cancel

Next

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Manage Customer Access

Review Internal Users

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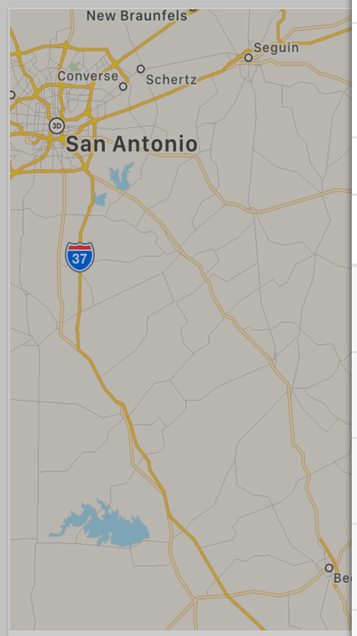
Lila Shephard	Sees 2 sites	Devon	4 areas, 22 units	Select
Windsor Roberts	Sees 1 site	Devon	1 area, 8 units	
Ro Him	Sees 1 site	EcoLab	12 areas, 30 units	
Brian Walker	Sees 3 sites	EcoLab	7 areas, 14 units	
Antonio Jensen	Sees 2 sites	EcoLab	4 areas, 2 units	
Jerome Payne	Pending	EcoLab	1 area, 3 units	Select

Belinda Tulle
Richard Kim
Windsor Roberts
Ro Him
Brian Walker
Antonio Jensen

Cancel

Next

Site Settings



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Nalco Users

10 Customer Users

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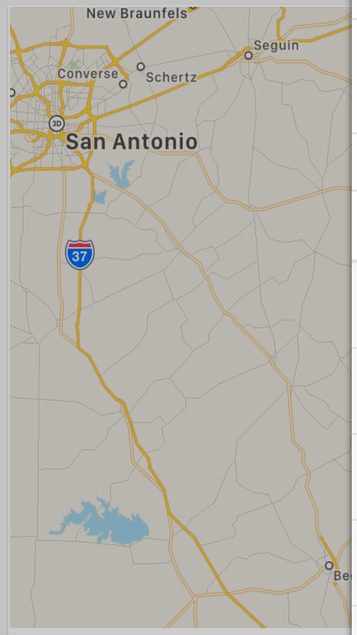
Lila Shephard	Sees 2 sites	Devon	4 areas, 22 units	Select
Windsor Roberts	Sees 1 site	Devon	1 area, 8 units	Select
Ro Him	Sees 1 site	EcoLab	12 areas, 30 units	Select
Brian Walker	Sees 3 sites	EcoLab	7 areas, 14 units	Select
Antonio Jensen	Sees 2 sites	EcoLab	4 areas, 2 units	Select
Jerome Payne	Pending	EcoLab	1 area, 3 units	Select

DOW Bahia
Oclan Naperville

Cancel

Next

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Manage Customer Access

Review Internal Users

Don't see who you're looking for? Request to add a customer to the site.

Search Users by Name

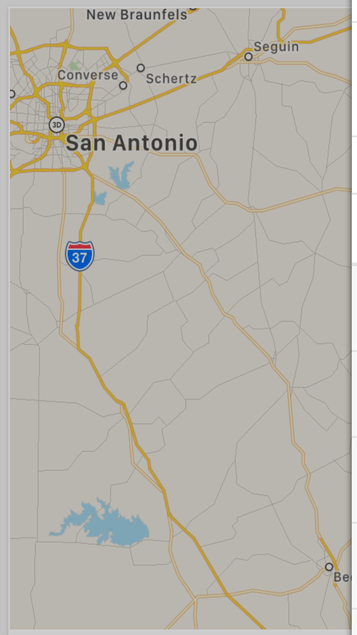
Export to CSV

Name	Sites	Company/Division	Areas/Units	G
Belinda Tulle	Sees 1 site	Devon	Not set	Select
Richard Kim	Pending	Devon	6 areas, 2 units	Select
Lila Shephard	Sees 2 sites	Devon	4 areas, 22 units	Select
Windsor Roberts	Sees 1 site	Devon	1 area, 8 units	Select
Ro Him	Sees 1 site	EcoLab	12 areas, 30 units	Select
Brian Walker	Sees 3 sites	EcoLab	7 areas, 14 units	Select
Antonio Jensen	Sees 2 sites	EcoLab	4 areas, 2 units	Select
Jerome Payne	Pending	EcoLab	1 area, 3 units	Select

Cancel

Next

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Manage Customer Access | Review Internal Users

Don't see who you're looking for? Request to add a customer to the site.

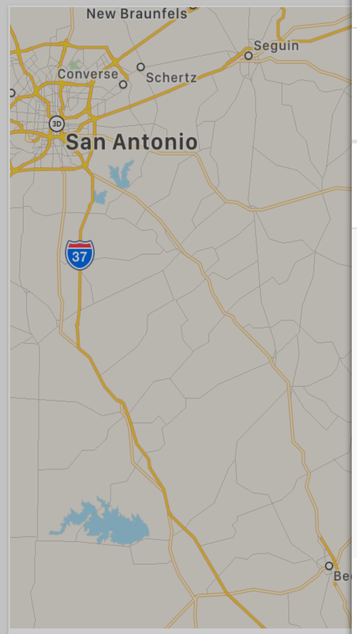
Search Users by Name

Name	Sites	Company/Division	Areas/Units	Grant Same Access As
Belinda Tulle	Sees 1 site	Devon	Not set	Select
Richard Kim	Pending	Devon	6 areas, 2 units	Select
Lila Shephard	Sees 2 sites	Devon	4 areas, 22 units	Select
Windsor Roberts	Requested to Remove			
Ro Him	Sees 1 site	EcoLab	12 areas, 30 units	Select
Brian Walker	Sees 3 sites	EcoLab	7 areas, 14 units	Select
Antonio Jensen	Sees 2 sites	EcoLab	4 areas, 2 units	Select
Jerome Payne	Pending	EcoLab	1 area, 3 units	Select

Cancel | Next

Request to remove "Windsor Roberts" submitted

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Access Levels for Belinda Tulle (Customer)

Search

Access View Only

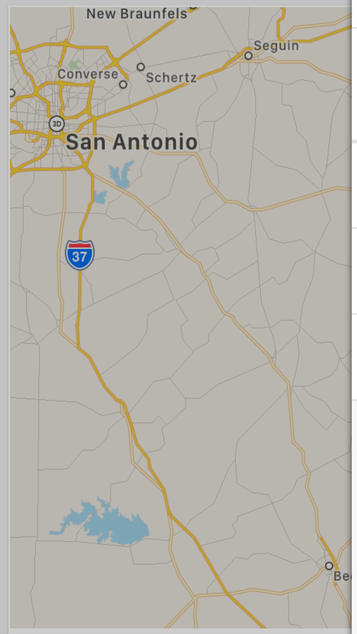
Area 3	Contains 3 Units	Access Granted	Remove
Unit A		Access Granted	Remove
Unit B		Access Granted	Remove
Unit C		Access Granted	Remove
Area 5	Contains 2 Units	Access Granted	Remove
Area 10	Contains 2 Units	Access Granted	Remove
Area 12	Contains 2 Units	Access Granted	Remove

Back

Cancel

Save

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Access Levels for Belinda Tulle (Customer)

Search

Access View Only

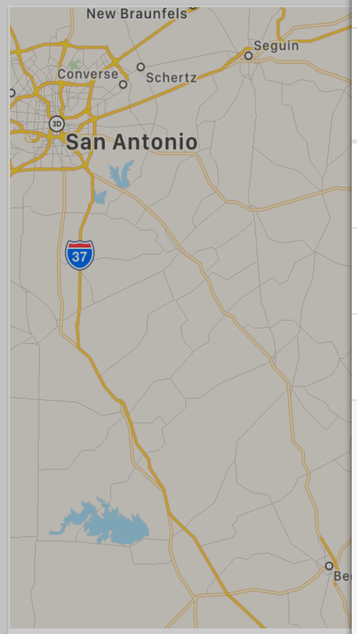
Area 1	Contains 4 Units		Grant Access
Area 2	Contains 9 Units		Grant Access
Area 3	Contains 3 Units		Grant Access
Unit A			Grant Access
Unit B		✓ Access Granted	Remove
Unit C			Grant Access
Area 4	Contains 20 Units		Grant Access
Area 5	Contains 2 Units	✓ Access Granted	Remove

Back

Cancel

Save

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Access Levels for Belinda Tulle (Customer)

Search

Access View Only

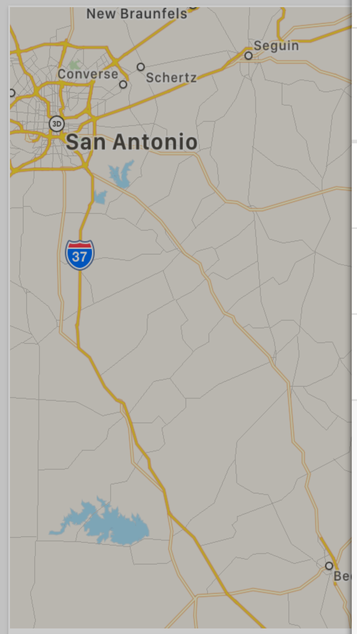
Area 1	Contains 4 Units		Grant Access
Area 2	Contains 9 Units		Grant Access
Area 3	Contains 3 Units		Grant Access
Unit A			Grant Access
Unit B			Grant Access
Unit C			Grant Access
Area 4	Contains 20 Units		Grant Access
Area 5	Contains 2 Units	Access Granted	Remove

Back

Cancel

Save

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Access Levels for Belinda Tulle (Customer)

Search

Access View Only

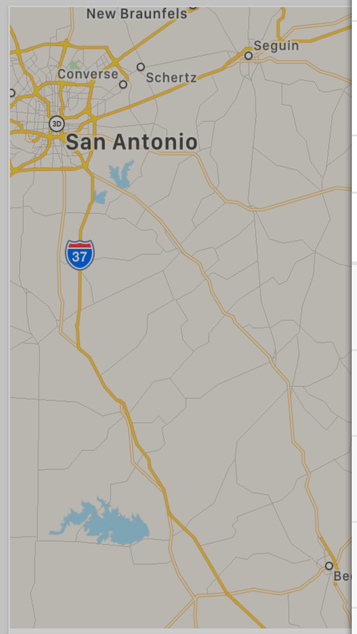
Area 1	Contains 4 Units		Grant Access
Area 2	Contains 9 Units		Grant Access
Area 3	Contains 3 Units	✓ Access Granted	Remove
Unit A		✓ Access Granted	Remove
Unit B		✓ Access Granted	Remove
Unit C		✓ Access Granted	Remove
Area 4	Contains 20 Units		Grant Access
Area 5	Contains 2 Units	✓ Access Granted	Remove

Back

Cancel

Save

Site Settings



Location

Nalco Users

10 Customer Users

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Manage Customer Access | Review Internal Users

Don't see who you're looking for? Request to add a customer to the site.

Search Users by Name

Name	Sites
Michael Jerla	Sees 1 site
Lucinda WIlliams	Sees 1 site
Heather Mcentire	Sees 2 sites
Rob Strong	Sees 1 site
Sarah Neufeld	Sees 1 site
Owen Atkins	Sees 3 sites
Leo Hunter	Sees 2 sites
Frank Wilson	Sees 1 site

Devon Eagle Ford

Cancel Save

Site Settings Admin View

Site Settings

Location — DeWitt County, TX., USA 77954 (NA Region)

User Permissions — 8 Internal/Nalco Users — 10 Customer Users

Approved Email Domains — 3 Approved Domains

Preferred Document Language — English

Site Time Zone — Central Standard (CST)

Asset Tree — 86 Active Assets

Site Products — 28 Products in Use

Site Settings

Location

Location Details

ADDRESS LINE*

NA

ADDRESS LINE 2

CITY*

DeWitt County

STATE*

TX

COUNTRY*

USA

ZIPCODE*

77954

REGION*

NA Region

Cancel

Save

ns 8 Internal/Nalco Users 10 Customer Users

il Domains 3 Approved Domains

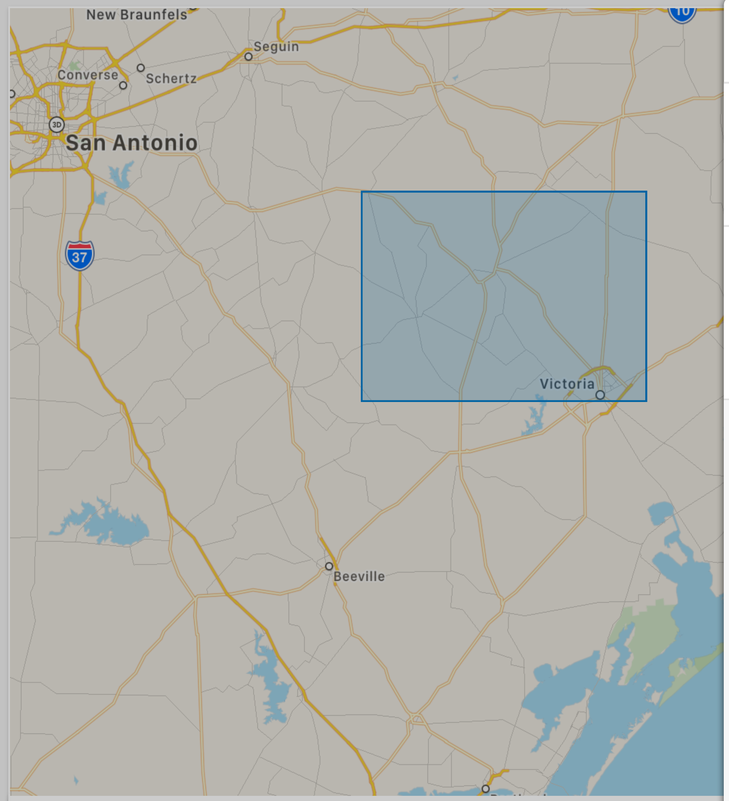
ument Language English

Central Standard (CST)

86 Active Assets

28 Products in Use

Site Settings



Location

8 Internal/Nalco Users

10 Customer Users

Domains

3 Approved Domains

ent Language

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Approved Email Domains

To receive reports and other documentation directly from the tool, users must first have the domain of their email address ("example.com") added to this whitelist. Do not include "@" symbol.

ADD NEW DOMAIN

otherDevondomain.com

Add

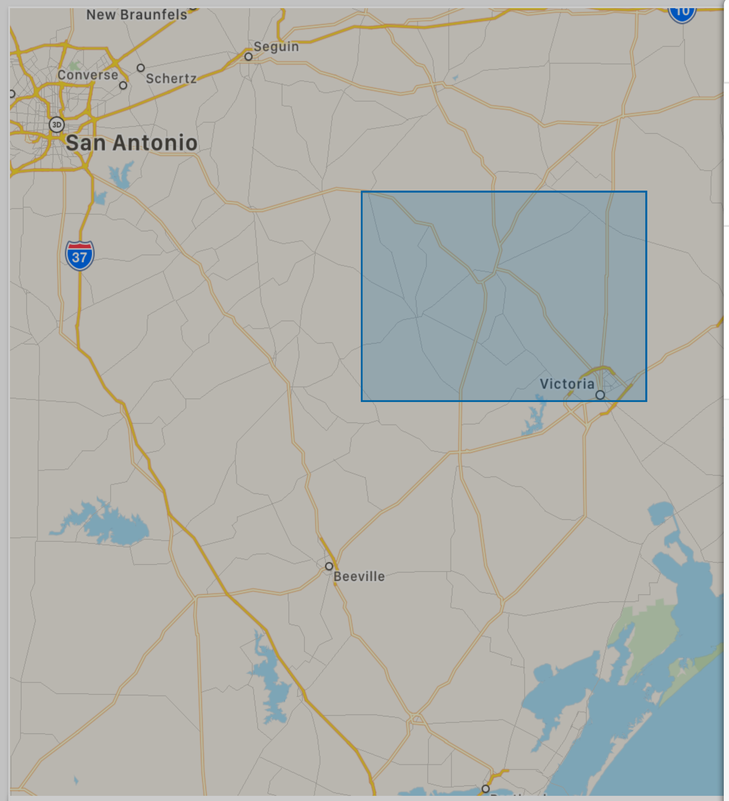
CURRENT DOMAINS

- devon.com
- devonenergy.com
- ecolab.com
- example.com
- example.com

Cancel

Save

Site Settings



Location

8 Internal/Nalco Users

10 Customer Users

Domains

3 Approved Domains

ent Language

English

Central Standard (CST)

86 Active Assets

28 Products in Use

Approved Email Domains

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ADD NEW DOMAIN

Add

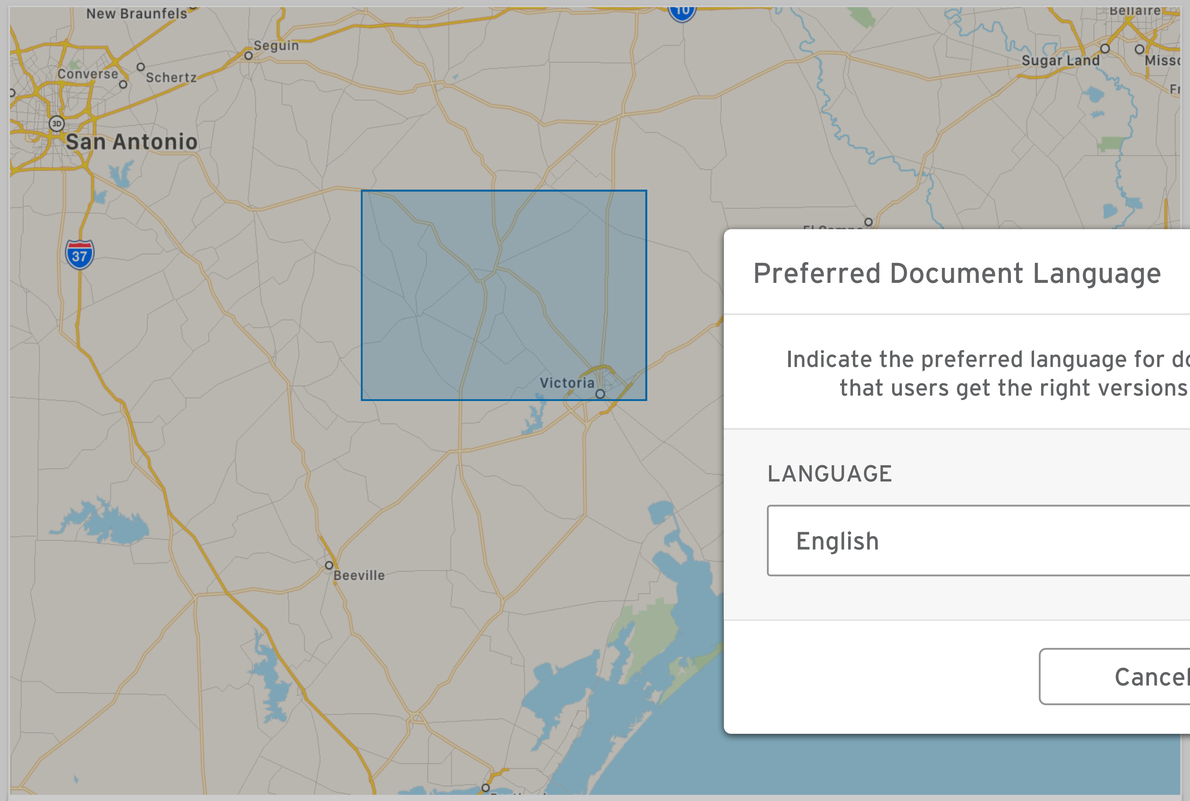
CURRENT DOMAINS

- otherDevondomain.com
- devon.com
- devonchemical.com
- ecolab.com
- example.com

Cancel

Save

Site Settings



Location — DeWitt County, TX., USA 77954 (NA Region)

User Permissions — 8 Internal/Nalco Users — 10 Customer Users

Approved Email Domains — 3 Approved Domains

Preferred Document Language — English

Time Zone — Central Standard (CST)

Active Assets — 86 Active Assets

Site Products — 28 Products in Use

Preferred Document Language

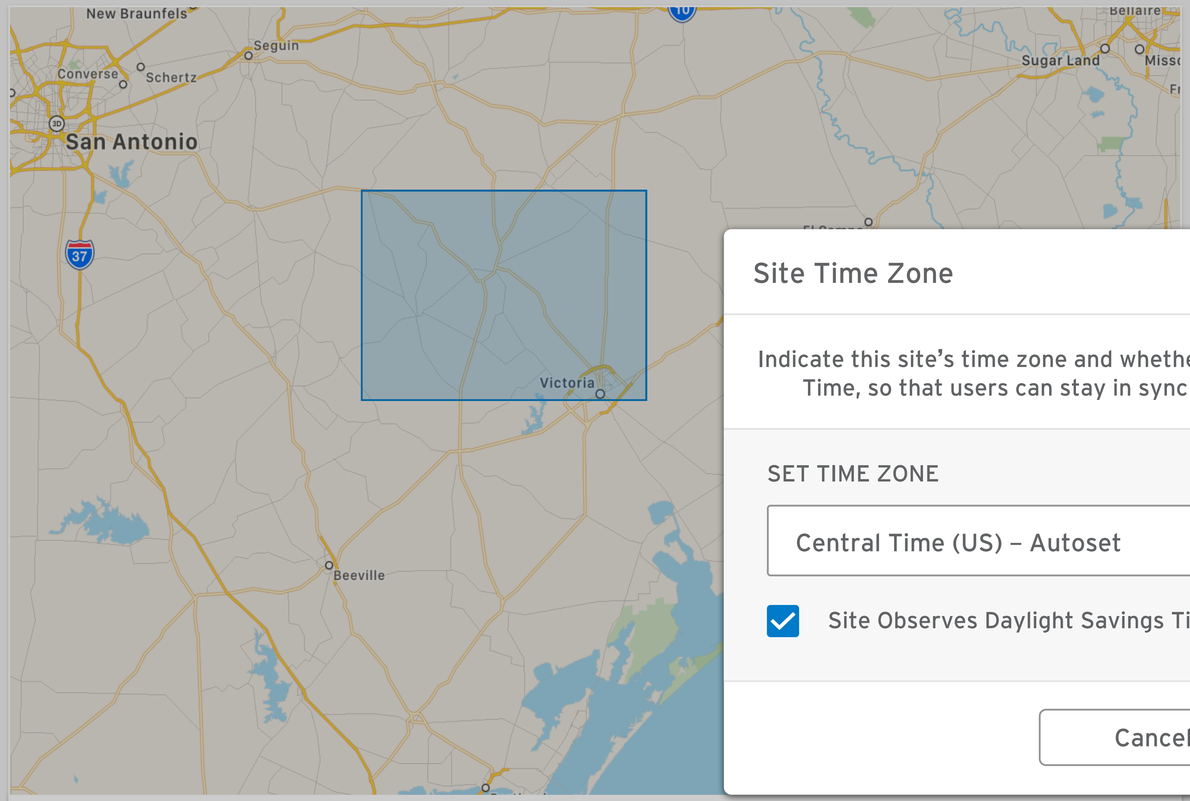
Indicate the preferred language for documentation at this site, so that users get the right versions of files when available.

LANGUAGE

English

Cancel | Save

Site Settings



Location — DeWitt County, TX., USA 77954 (NA Region)

User Permissions — 8 Internal/Nalco Users — 10 Customer Users

Approved Email Domains — 3 Approved Domains

Current Language — English

Central Standard (CST)

86 Active Assets

Site Products — 28 Products in Use

Site Time Zone

Indicate this site's time zone and whether it observes Daylight Savings Time, so that users can stay in sync no matter where they are.

SET TIME ZONE

Central Time (US) – Autoset

☑ Site Observes Daylight Savings Time

Cancel | Save

User Preferences

User Preferences

Default Language English

Out of Office 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Devon Rockies Oil

User Preferences

Default Language	English
Out of Office	06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller	5 Controllers
Daily Summary Emails	06:00 CST

Devon Rockies Oil

User Preferences

Default Language	English
Out of Office	06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Devon Rockies Oil

Instant Alerts by Asset/Controller	5 Controllers
Daily Summary Emails	06:00 CST

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Search Sites by Name

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Devon Delaware Basin

Site Name

Site Name

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Default Language

Set your preferred language for RK 2.0.

LANGUAGE

English

Cancel | Save

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Manage Out of Office

Schedule a pause in notifications from this asset by indicating a time frame and the contacts affected.

START DATE: 06/07/2018

END DATE: 06/12/2018

SELECT RECIPIENT(S) TO VIEW AND EDIT OUT OF OFFICE

View All

Search

- [x] Myself [John Smith]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]

Cancel | Save

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Manage Instant Alerts for Devon Eagle Ford

Alert customers and colleagues instantly when exceptions and alarms are triggered.

SELECT RECIPIENT(S) TO VIEW AND EDIT OUT OF OFFICE

View All

Search

- [x] Myself [John Smith]
- [ ] Esme R. Thoms
- [ ] jerome.appleseed@devon.com
- [ ] romeo.walton@devon.com
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]

Cancel Next

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

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View All

Search

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- [x] Esme R. Thoms
- [x] jerome.appleseed@devon.com
- [x] romeo.walton@devon.com
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]

Cancel Next

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Manage Instant Alerts for Devon Eagle Ford

Alert customers and colleagues instantly when exceptions and alarms are triggered.

SELECT RECIPIENT(S) TO VIEW AND EDIT OUT OF OFFICE

View All

View All ✓

Nalco Users for this Site

Customer Contacts for this Site

romeo.walton@devon.com

[user first and last name who has access to site]

[user first and last name who has access to site]

[user first and last name who has access to site]

[user first and last name who has access to site]

[user first and last name who has access to site]

[user first and last name who has access to site]

Cancel Next

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Manage Instant Alerts for Devon Eagle Ford

Alert customers and colleagues instantly when exceptions and alarms are triggered.

RECIPIENT(S) — Show All

- John S. Smith
- Esme R. Thoms
- jerome.appleseed@devon.com

SELECT CONTROLLER(S)

View All

Search

- [x] [asset name, controller serial #]
- [ ] [asset name, controller serial #]
- [ ] [asset name, controller serial #]
- [ ] [asset name, controller serial #]
- [ ] [asset name, controller serial #]
- [ ] [asset name, controller serial #]

‹ Back | Cancel | Save

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Manage Instant Alerts for Devon Eagle Ford

Alert customers and colleagues instantly when exceptions and alarms are triggered.

RECIPIENT(S) Hide

- John S. Smith
- Esme R. Thoms
- jerome.appleseed@dow.com
- romeo.walton@dow.com
- alexa.avila@dow.com
- Austen Miller
- callie.thompson@dow.com

SELECT CONTROLLER(S)

View All

Search

- [x] [asset name, controller serial #]
- [ ] [asset name, controller serial #]
- [ ] [asset name, controller serial #]
- [ ] [asset name, controller serial #]

‹ Back | Cancel | Save

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Manage Instant Alerts for Devon Eagle Ford

Alert customers and colleagues instantly when exceptions and alarms are triggered.

RECIPIENT(S) — Show All

- John S. Smith
- Esme R. Thoms
- Jerome@dow.com
- RomeoW@dow.com

SELECT CONTROLLER(S)

View All

- View All
- Well
- Pipeline
- Pipeline V2
- Vessel

[asset name, controller serial #]

Back | Cancel | Save

User Preferences

Default Language	English
Out of Office	06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford	
Instant Alerts by Asset/Controller	5 Controllers
Daily Summary Emails	06:00 CST
Devon Rockies Oil	

Daily Summary Emails for Devon Eagle Ford

Set up a Daily Summary Email by selecting the time, recipients, and assets or controllers to be summarized.

DELIVERY TIME

06:00 CST

SELECT RECIPIENT(S) TO VIEW AND EDIT TIME

View All

Search

- [x] Myself [John Smith]
- [x] Esme R. Thoms
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]
- [ ] [user first and last name who has access to site]

Cancel

Next

User Preferences

Default Language — English

Out of Office — 06/07/2018 – 06/12/2018

Site Communication Preferences

Devon Eagle Ford

Instant Alerts by Asset/Controller — 5 Controllers

Daily Summary Emails — 06:00 CST

Devon Rockies Oil

Daily Summary Emails for Devon Eagle Ford

Set up a Daily Summary Email by selecting the time, recipients, and assets or controllers to be summarized.

DELIVERY TIME

06:00 CST

RECIPIENT(S) — Show All

John S. Smith | Esme R. Thoms

SELECT ASSET(S)

View All

Search

- Asset Name
- Asset Name
- Asset Name
- Asset Name
- Asset Name

Back | Cancel | Save

Contacts

Contacts at My Sites

Add New Contact in Orchestra

Search by Name

VIEW BY TYPE
All

VIEW BY MY SITE(S)
All

Reset

Name	Office Phone	Mobile Phone	Email	Type	Company/Division	Sites
Mike Jerla	(310) 323-4455	(310) 323-4455	sarah.t.neufeld@nalcowater.com	Internal	Nalco	112
Lucinda Williams	(310) 323-4455	(310) 323-4455	lucinda.williams@devon.com	Corporate Customer	Devon	3
Heather McEntire	(310) 323-4455	(310) 323-4455	h.mcentire@anadarko.com	Corporate Customer	Anadarko	3
Rob Strong	(310) 323-4455	(310) 323-4455	robert.strong@nalcowater.com	Internal	Nalco Water	2
Sarah Neufeld	(310) 323-4455	(310) 323-4455	sarah.t.neufeld@nalcowater.com	Corporate Customer	Nalco Water	2
Eli Robinson	(310) 323-4455	(310) 323-4455	eli.robinson@nalcowater.com	Internal	Nalco Water	1
Chitra Maya	(310) 323-4455	(310) 323-4455	chitra.maya@devon.com	Local Customer	Devon	1
Robbie Lim	(310) 323-4455	(310) 323-4455	robbie.lim@ecolabs.com	Internal	EcoLabs	1
Callie Thompson	(310) 323-4455	(310) 323-4455	callie.thompson@anadarko.com	Internal	Anadarko	2
Austen Miller	(310) 323-4455	(310) 323-4455	austen.miller@nalco.com	Corporate Customer	Nalco Water	3
Bryan Christian	(310) 323-4455	(310) 323-4455	bryan.christian@nalcowater.com	Corporate Customer	Nalco Water	1
Alexa Avila	(310) 323-4455	(310) 323-4455	alexandra.avila@nalco.com	Internal	EcoLabs	3
John Appleseed	(310) 323-4455	(310) 323-4455	j.appleseed@dow.com	Local Customer	Devon	1

Devon (5 assets)

Looking for someone else?

Search Global Contacts by Name

Contacts at My Sites

Add New Contact in Orchestra

Search by Name

VIEW BY TYPE
All

VIEW BY MY SITE(S)
All

Reset

Export to CSV

Name	Office Phone	Mobile Phone	Email	Type	Company/Divisio	
Mike Jerla	(310) 323-4455	(310) 323-4455	sarah.t.neufeld@nalcowater.com	Internal	N	
Lucinda Williams	(310) 323-4455	(310) 323-4455	lucinda.williams@devon.com	Corporate Customer	Devon	3
Heather McEntire	(310) 323-4455	(310) 323-4455	h.mcentire@anadarko.com	Corporate Customer	Anadarko	3
Rob Strong	(310) 323-4455	(310) 323-4455	robert.strong@nalcowater.com	Internal	Nalco Water	2
Sarah Neufeld	(310) 323-4455	(310) 323-4455	sarah.t.neufeld@nalcowater.com	Corporate Customer	Nalco Water	2
Eli Robinson	(310) 323-4455	(310) 323-4455	eli.robinson@nalcowater.com	Internal	Nalco Water	1
Chitra Maya	(310) 323-4455	(310) 323-4455	chitra.maya@devon.com	Local Customer	Devon	1
Robbie Lim	(310) 323-4455	(310) 323-4455	robbie.lim@ecolabs.com	Internal	EcoLabs	1
Callie Thompson	(310) 323-4455	(310) 323-4455	callie.thompson@anadarko.com	Internal	Anadarko	2
Austen Miller	(310) 323-4455	(310) 323-4455	austen.miller@nalco.com	Corporate Customer	Nalco Water	3
Bryan Christian	(310) 323-4455	(310) 323-4455	bryan.christian@nalcowater.com	Corporate Customer	Nalco Water	1
Alexa Avila	(310) 323-4455	(310) 323-4455	alexandra.avila@nalco.com	Internal	EcoLabs	3
John Appleseed	(310) 323-4455	(310) 323-4455	j.appleseed@dow.com	Local Customer	Devon	1

Looking for someone else?

Search Global Contacts by Name

RefinedKnowledge

9

JS

Contacts

Contacts at My Site

Add New Contact in Orchestra

Search by Name

VIEW BY MY SITE(S)
All

Reset

Name	Company/Division	Sites
Mike Jerla	Nalco	112
Lucinda Williams	Devon	3
Heather McEntire	Anadarko	3
Rob Strong	Nalco Water	2
Sarah Neufeld	Nalco Water	2
Eli Robinson	Nalco Water	1
Chitra Maya	Devon	1
Robbie Lim	EcoLabs	1
Callie Thompson	Anadarko	2
Austen Miller	Nalco Water	3
Bryan Christian	Nalco Water	1
Alexa Avila	EcoLabs	3
John Appleseed	Devon	1

Contact Info

FIRST NAME: Mike

LAST NAME: Jerla

TYPE: Internal User

COMPANY: Nalco

JOB TITLE: Product Owner

OFFICE PHONE: (555) 555-5555

MOBILE PHONE: (555) 555-5555

EMAIL: michael.jerla@nalco.com

NOTES

His favorite dinner is steak. His daughter's birthday is June 17th.

ACCESSED SITES

Edit Site Permissions

Devon

Devon Eagle Ford

Cancel

Save

Looking for someone else?

Search Global Contacts by Name

Search

RefinedKnowledge

Site, Asset, Documents...

4 JS

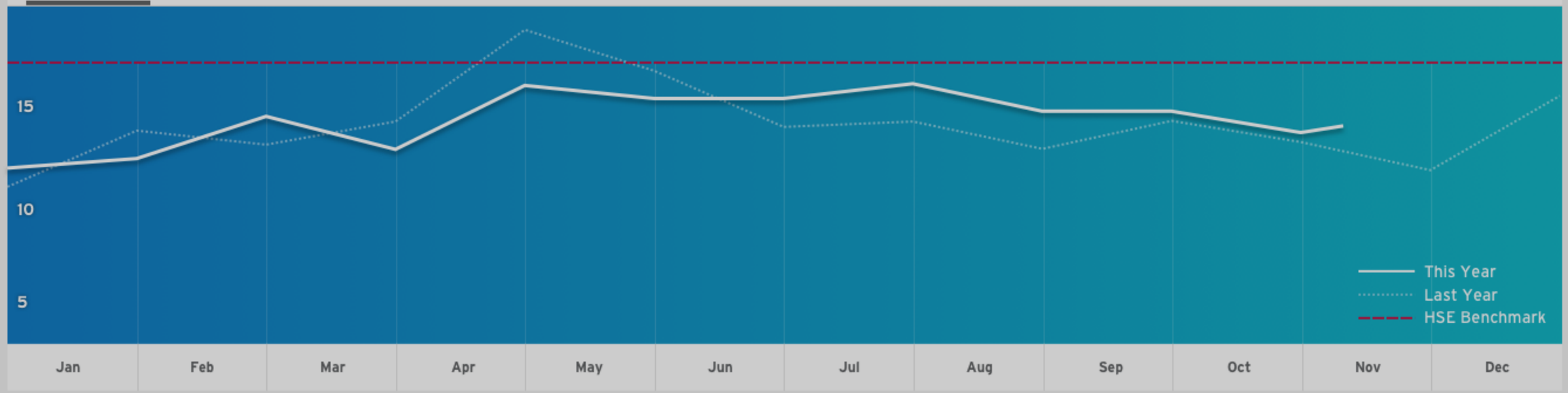
Sites > Eagle Ford

VIEW ASSETS BY Type | VIEW GRAPHS BY Year To Date | UNIT TYPE Imperial

Eagle Ford

Associate LIMS Reports At Site

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost

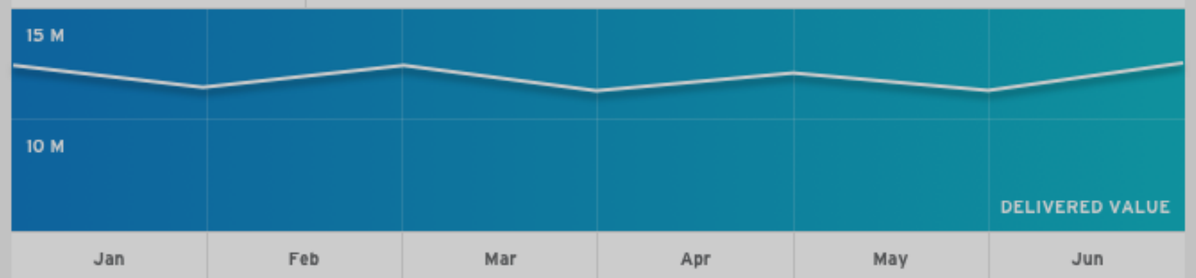


CMV Projects

Active
52

Alerts
3 Overdue
3 No Defined Value

Potential Value: $45.6 M
YTD Delivered Value: $12.6 M



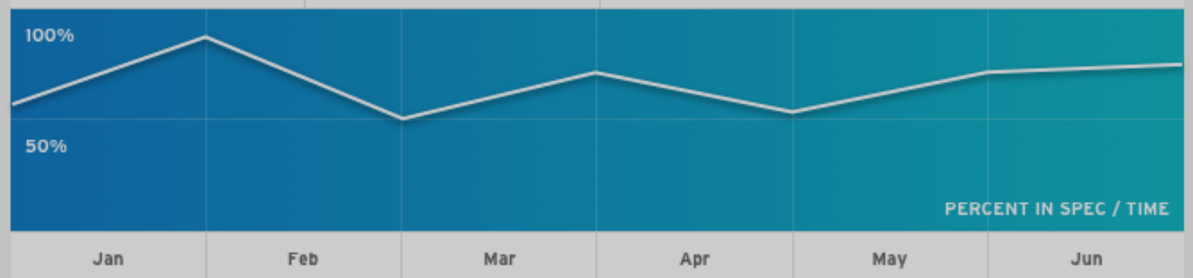
INCLUDES DATA FROM CMV / GRAPH DISPLAYING LAST 6

TLM Overview

Total Units
10

Offline
4

Current Health
81%



DATA FROM 3D TRASAR / GRAPH DISPLAYING LAST 6 MONTHS

Chemical Applications

RefinedKnowledge

BP | Search

- BP
- BP Site H
- BP Site A
- BP Site B

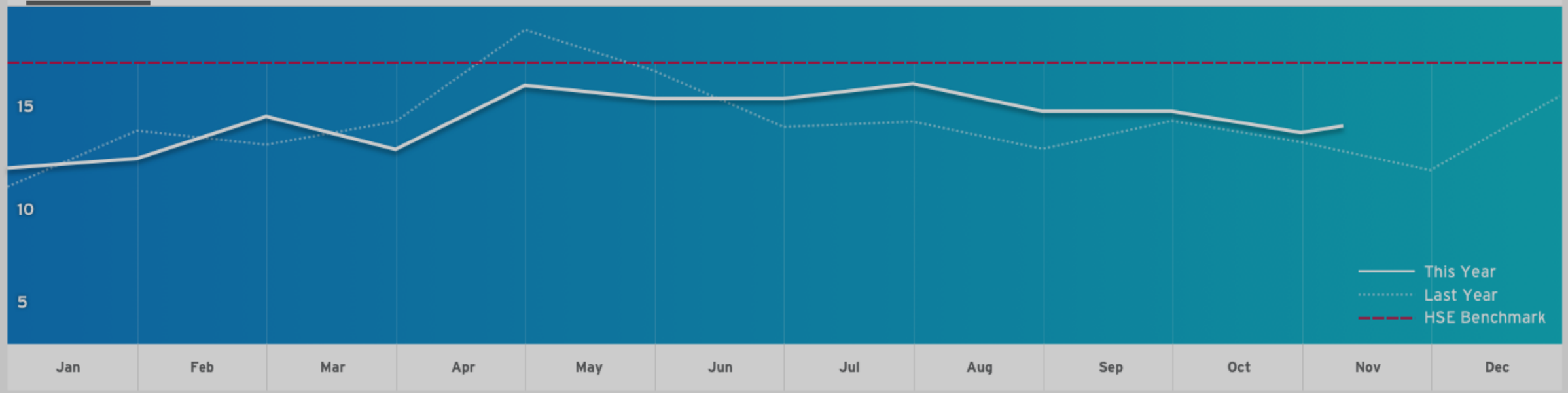
4 JS

Sites > Eagle Ford

Eagle Ford

Reports At Site

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost

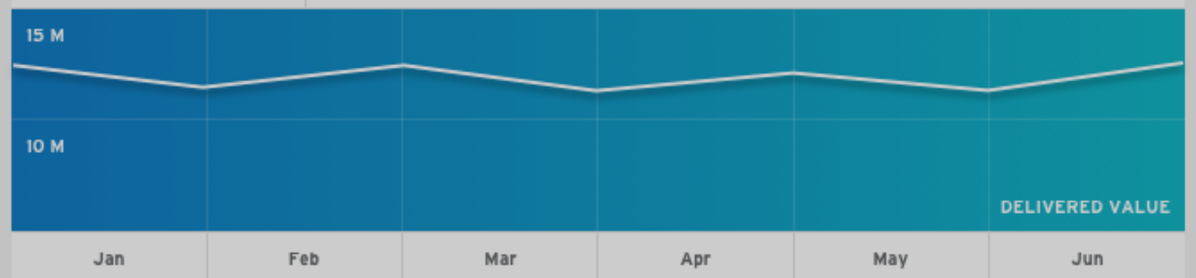


CMV Projects

Active
52

Alerts
3 Overdue
3 No Defined Value

Potential Value: $45.6 M
YTD Delivered Value: $12.6 M



INCLUDES DATA FROM CMV / GRAPH DISPLAYING LAST 6

TLM Overview

Total Units
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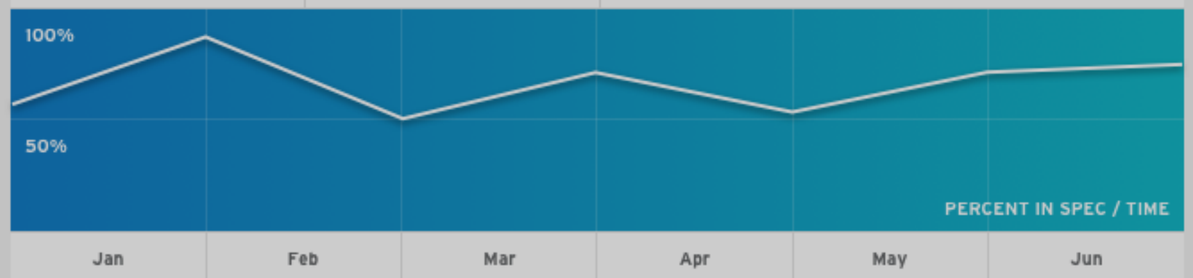
Offline
4

Current Health
81%



DATA FROM 3D TRASAR / GRAPH DISPLAYING LAST 6 MONTHS

Chemical Applications

RefinedKnowledge

BP | Search

BP Remove

BP Site H

BP Site A

BP Site B

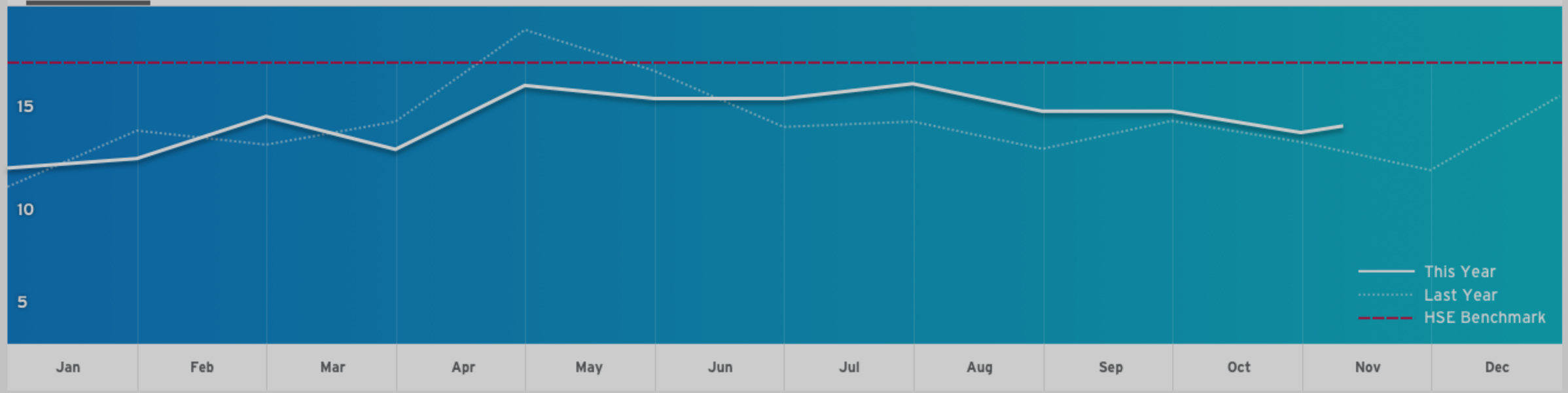
4 JS

Sites > Eagle Ford

Eagle Ford

Reports At Site

Safety Incidents | Near Misses | Finanical Cost | MCF | BOE | Water Produced | Usage Cost | Forecast/Actual Cost



CMV Projects

Active

52

Alerts

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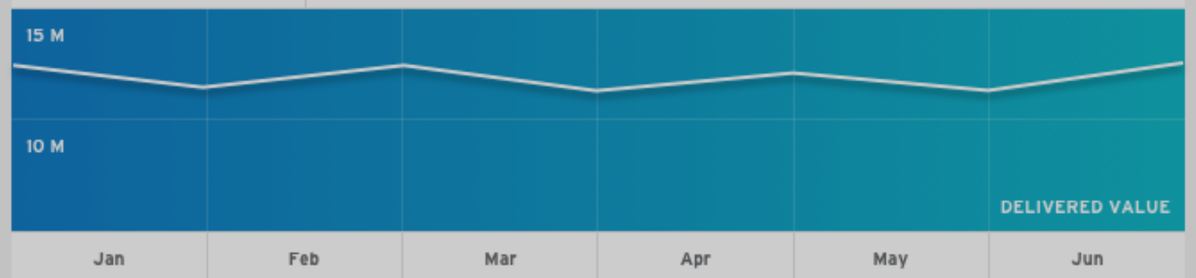


INCLUDES DATA FROM CMV / GRAPH DISPLAYING LAST 6

TLM Overview

Total Units

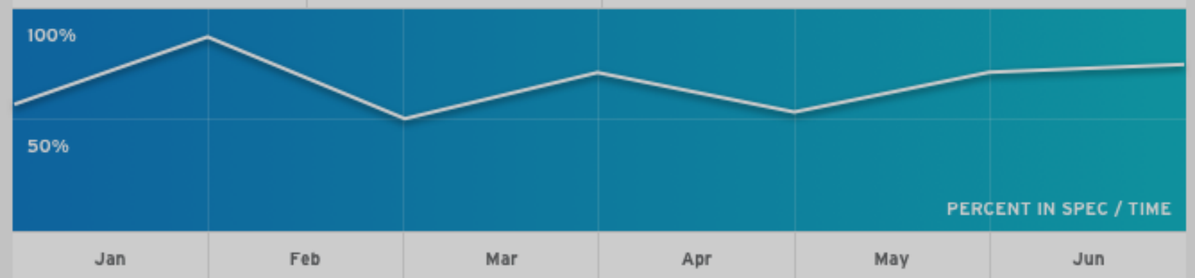
10

Offline

4

Current Health

81%



DATA FROM 3D TRASAR / GRAPH DISPLAYING LAST 6 MONTHS

Chemical Applications

Search > 154 Results

VIEW ASSETS BY Type

VIEW GRAPHS BY Year To Date

UNIT TYPE Imperial

All | Locations | Documents | CMV Projects | Contacts

154 Results

SYSTEM DIAGRAM
Sites / BP / Coker CT (SN 99907) / Documents / System Diagram.csv

MIKE JERLA
BP / Contacts

KARTHIK MAINAMPATI
BP / Contacts

NAPERVILLE
Oclan / Naperville / Refinery / Cooling Water Systems BP / CT (pH 8.2-9.0)

MSDS FOR COKER
Sites / BP / Coker CT (SN 98402) / Documents / MSDS for Coker.pdf

SAFETY DASHBOARD
Sites / BP / Coker CT (SN 98402) / Documents / Safety Dashboard.pdf

CMV PROJECT
Sites / BP / Coker CT (SN 99907) / Projects / Cost Optimization / Complete /
Search Result Content Continued

CMV PROJECT
Sites / BP / Coker CT (SN 99907) / Projects / Cost Optimization

CMV PROJECT
Sites / BP / Coker CT (SN 99907) / Projects / Cost Optimization

Filter

FROM
MM-DD-YYYY

TO
MM-DD-YYYY

RESET DATE

RefinedKnowledge

BP

9

JS

Search > 154 Results

VIEW ASSETS BY Type

VIEW GRAPHS BY Year To Date

UNIT TYPE Imperial

All | Locations | Documents | CMV Projects | Contacts

154 Results

SYSTEM DIAGRAM
Sites / BP / Coker CT (SN 99907) / Documents / System Diagram.csv

MIKE JERLA
BP / Contacts

KARTHIK MAINAMPATI
BP / Contacts

NAPERVILLE
Oclan / Naperville / Refinery / Cooling Water Systems BP / CT (pH 8.2-9.0)

MSDS FOR COKER
Sites / BP / Coker CT (SN 98402) / Documents / MSDS for Coker.pdf

SAFETY DASHBOARD
Sites / BP / Coker CT (SN 98402) / Documents / Safety Dashboard.pdf

CMV PROJECT
Sites / BP / Coker CT (SN 99907) / Projects / Cost Optimization / Complete / Search Result Content Continued

CMV PROJECT
Sites / BP / Coker CT (SN 99907) / Projects / Cost Optimization

CMV PROJECT
Sites / BP / Coker CT (SN 99907) / Projects / Cost Optimization

1 of 20

Aug 2017

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Filter

FROM
08-18-2017

TO
08-25-2017

RESET DATE

All | Locations | Documents | CMV Projects | Contacts

33 Results

CASTELLON
BP / Castellon / Water Treatments / Cooling / Coker CT (SN 99807)

CHERRY POINT
BP / Cherry Point / Utilities Area / Waste Plant / Amine-CL Deposition

GELSENKIRCHEN
BP / Gelsenkirchen / CPI / Olefins / Steam (SN 98442)

KINNEIL
BP / Kinneil / Enhanced Gas Separation Project / Amine-CL 240

NANJING YPC
BP / Nanjing YPC / Acetic Acid Plant / Cooling Tower System / CT 1792

ROTTERDAM
BP / Rotterdam / Refinery / CDU Boilers / 3DT191 Bulk Tank

PGB-UK
Petronas / PGB-UK / Gas Berhad Utilities Kerteh / Condensate Returned
BPPA / FA-310

TOLEDO
BP / Toledo / Refinery Process / Foul Condensate Stripper / FA-217

TEXAS CITY CHEMICALS
BP / Texas City Chemicals / OSBL / CCB Chiller CT / CT 1246

Filter

FROM
08-18-2017

TO
08-25-2017

RESET DATE

- [ ] Customers
- [ ] Sites
- [ ] Areas
- [ ] Assets

CLEAR FILTER

All | Locations | Documents | CMV Projects | Contacts

12 Results

MIKE JERLA
BP / Contacts

JOHN RYCHWA
BP / Contacts

AMELIA MILLAN
BP / Contacts

KARTHIK MAINAMPATI
BP / Contacts

DOM BELLIA
BP / Contacts

SERGEY GRACHEVBP
Chevron / Contacts

CHRISTINA STROH
BP / Contacts

STUART FOLSE
BP / Contacts

LUIS RAMIREZ
BP / Contacts

Filter

FROM

08-18-2017

TO

08-25-2017

RESET DATE

- [ ] [Customer Contacts]
- [ ] [Nalco Users]

CLEAR FILTER

Search > 3 Results

VIEW ASSETS BY Type

VIEW GRAPHS BY Year To Date

UNIT TYPE Imperial

All | Locations | Documents | CMV Projects | Contacts

3 Results

CASTELLON
BP / Castellon / Water Treatments / Cooling / Coker CT (SN 99807)

NANJING YPC
BP / Nanjing YPC / Acetic Acid Plant / Cooling Tower System / CT 1792

TEXAS CITY CHEMICALS
BP / Texas City Chemicals / OSBL / CCB Chiller CT / CT 1246

1 of 1

Filter

FROM
08-18-2017

TO
08-25-2017

RESET DATE

- [ ] Customers
- [ ] Sites
- [ ] Areas
- [x] Assets

CLEAR FILTER

avanade

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