



Florida Department of
TRANSPORTATION



Instructions for Production Facilities Map Queries

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Instructions for Production Facilities Map Queries

Chapter 1 Background

A Production Facility in the Department's Materials Acceptance and Certification System (MAC) database is a mine, plant or terminal. Production Facilities are assigned one or more material types associated with their Facility Id(s) and Producer Quality Control Plan(s). This application (app) can be found at <https://prodfacilmap.fdot.gov/app> and runs with a Microsoft Edge or Chrome browser. The app queries the MAC Reporting Database and presents results of entries updated in the previous 24 hours.

Users have several query options to locate Department Production Facilities on a map and to get a summary report with contact information. The design includes built-in query options which the user can customize in multiple searches. Results are also listed in a Report tab and can be exported to an Excel "csv" file (comma separated values). The user can reset the queries and repeat searches.

The application screen features several query/search fields that can be used in two methods. First, a user can begin to type an entry, in which case a type-ahead feature allows the selection of pre-populated options. Second, some fields feature dropdowns, and the user can only select those options available, or choose to leave that field blank.

Intended users are FDOT staff, local government entities, roadway contractors and affiliates, members of the public, planners, researchers, educators, students, and anyone with a desire for the information provided.

Chapter 2 General

The mapping images are provided by the company Earthstar Geographics. Images are all satellite views, and a Google map view is not available. The user is able to zoom in and out and click and hold the left cursor button to drag the image. When zooming in, more information is displayed, such as County and city names and County boundaries. However commercial sites are not available.

The user can obtain the latitude and longitude of a Production Facility, by exporting the report results to the Excel "csv" file.

The Managing District field is multi-select, drop-down, meaning that after selecting any District, the user can also add another district by clicking. Districts can be selected in any order. Before performing the search, the District can be removed by selecting the X beside the number.

The application is designed to pair with another internal FDOT administrative application. As such, the user might notice a Report header, "Who's Waiting", that is not relevant to the Map Application.

Chapter 3 Query Field Definitions

The right-hand side of the screen lists the available query fields. A description of each follows in the order they appear on the screen. Note that as the user selects more fields, the application returns less results. It is recommended to start with a smaller number of fields unless the user has specific knowledge in the area of interest.

A. Material Type. (Type ahead)

As soon as any letter is entered in the “Material Type” field a series of choices appear in a dropdown. The user can select any text in the dropdown as soon as it is available. Different lists will appear depending on the first letter typed, because the type ahead feature returns any “Material Type” containing that letter. If the user does not find the choice in “Material Type”, it is possible that the choice is a “Product Name”. The user should verify in both the “Material Type” and “Product Name” dropdowns. These are the most common “Material Type” results for the application:

• Aggregate	• Precast pipe
• Asphalt	• Incidental Precast Products
• Asphalt Binder	• Cement
• Prestressed Concrete Products	• Silica fume
• Structural concrete	• Fly Ash
• Non Structural Concrete	• Metakaolin
• Precast Drainage Structures	• Metal Pipe

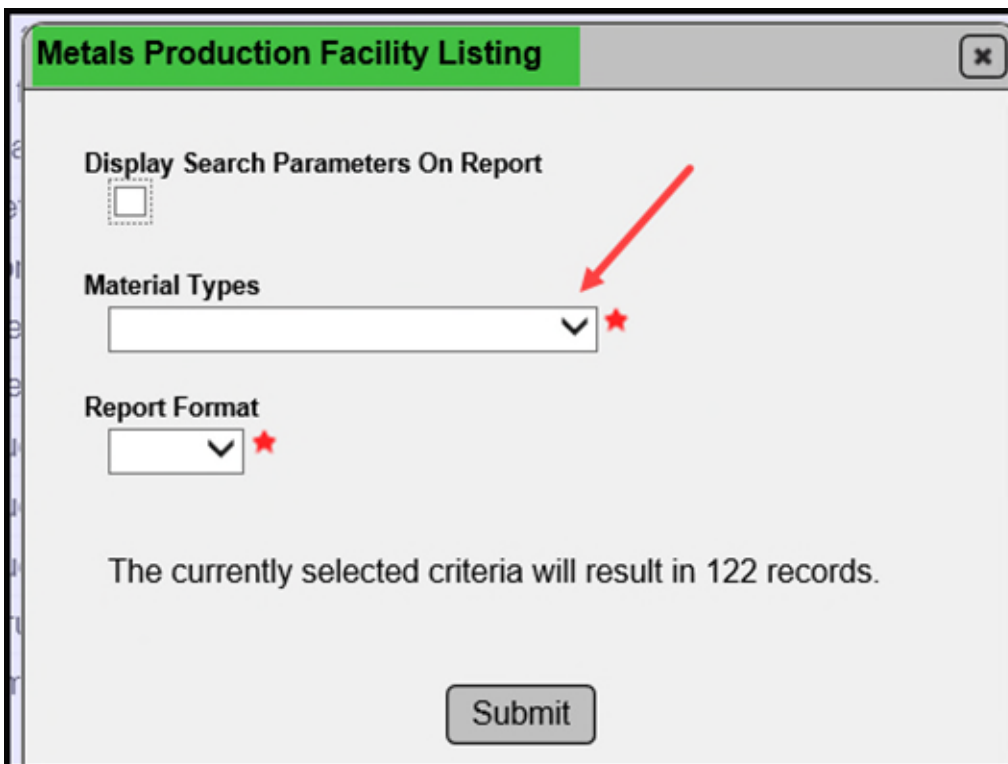
Other:

• Aluminum	• Guardrail
• Aluminum J-Arms	• Hardware
• Aluminum Light Poles	• Mast Arm
• Aluminum Railing	• Painting
• Casting and Forging	• Railroad
• Galvanizing	

A user can find a complete list of Material Types available for Production Facilities from the MAC Reports page at <https://mac.fdot.gov/reports>. Select either of the following depending on search preferences.

Production Facility Listing	Lists Production Facilities by various parameters
Production Facility Products Listing	Lists Production Facility Products by various parameters

A user can also select a desired Production Facility listed on this page, for example, select [Metals Production Facility Listing](#), then “Material Types”

A screenshot of a web form titled "Metals Production Facility Listing". The form has a green header bar with the title and a close button. Below the header, there is a checkbox labeled "Display Search Parameters On Report" which is currently unchecked. Underneath is a dropdown menu labeled "Material Types" with a red arrow pointing to it and a red star icon to its right. Below that is another dropdown menu labeled "Report Format" with a red star icon to its right. At the bottom of the form, there is a "Submit" button and a message that reads "The currently selected criteria will result in 122 records."

to see the list of Material Types.

oved Asphalt Recycled Products Report by Plant
sting of the asphalt gradation and gravity (Gsb) data for Asphalt Products per mine or
s Ceme
s all Coa
s all Fib
s all Fle
s report
or more
not use
ceed wit
s all Inci
s report
duction t
nician a
s all Me
s all Non S
s all Precast P
s all Prestress
s Production F
s Production F
s Production F
s all Structural
s all Timber P

Metals Production Facility Listing

Display Search Parameters On Report

- Aluminum
- M Aluminum J-Arms
- Aluminum Light Poles
- Aluminum Railing
- R Bridge Bearings
- Bridge Castings
- Bridge Forgings
- Bridge Machinery
- Casting and Forging
- CCTV Pole
- Coated Steel Fence
- Drainage Castings
- Drainage Welded
- Elastomeric Bearing Pads
- Fencing
- Guardrail
- Hardware
- Laminated Bearing Pads
- Mast Arm
- Miscellaneous Metals
- Overhead Cantilever
- Overhead Gantry
- Overhead Monotube
- Overhead Span/Truss
- Sign Structure
- Stay In Place Forms Coated
- Stay In Place Forms Uncoated
- Steel Bridge
- Steel Bridge (Pedestrian)

result in 122 records.

es Production Facilities
Facilities
ters

B. Product name. (Type ahead) Use Acronyms provided

Not all Products have Product Names. For example, Gabion Stone is a Product Name, but in some cases like Cement - Type I (and all cement types), this field is a "Product Code" and does not have any further descriptions like Product Name. Explanations for finding Product Codes are provided in Section D.

- Bank and shore riprap
- Bank run shell base
- Carbon fiber reinforced polymer
- Cemented coquina base
- Concrete pipe plant sand
- Crushed rap stockpile
- Cylindrical hollow piles
- Ditch bank lining
- Fender system component - wale splicing
- Fractionated rap (coarse)
Fractionated rap (fine)
- FRP sheet pile sections and system components (*Acronym: fiber reinforced polymer*)
- Gabion basket stone
- GFRP reinforced cylindrical plastic piles (*Acronym: glass fiber reinforced polymer*)
- Glass fiber reinforced polymer reinforcing for concrete (various sizes)
- Graded aggregate base
- Granite ballast AREMA (*Acronym: American Railway Engineering and Maintenance-of-Way Association*)
- Limerock base
- Masonry sand
- Plastic wales/lumber for bridge fender systems
- Project specific riprap
- Recycled asphalt shingles
- Recycled concrete base
- S1A stone
- Shell rock base
- Silica sand (concrete)
- Thermoplastic structural shapes
- Thermoset pultruded structural shapes
- Underdrain filter sand

Product Names (cont.) (for Pipes and Structural Components)

CLASS I CORRUGATED HDPE PIPE – *Various sizes*

CLASS I CORRUGATED POLYPROPYLENE PIPE – *Various sizes*

CLASS II CORRUGATED HDPE PIPE – *Various sizes*

CLASS II CORRUGATED POLYPROPYLENE PIPE – *Various sizes*

CLASS II CORRUGATED POLYPROPYLENE PIPE – *Various sizes*

CORRUGATED ALUMINUM PIPE

CORRUGATED PVC PIPE 12-36"

CORRUGATED STEEL PIPE

CORRUGATED STEEL PIPE – BITUMINOUS COATED ONLY

GFRP BAR (*Various sizes*, #4 to #8 for example) (*Acronym: glass fiber reinforced polymer*)

CFRP 7-STRAND 15.2

CFRP U5.0 SPIRAL

FRP SPLICE CHANNELS (*Acronym: Fiber reinforced polymer*)

FRP SPLICE PLATES

FRP STRUCTURAL SHAPES

C. Product Status.

Select one of the available options. Some products do not have a Product Status. If a Product does not result after a search, remove the Product Status choice. Users should be aware that if any of the filters with “Status” in the title is not used, the report returns all information available regardless of the status.

Approved
Depleted
Expired
Inactive
In Progress
SUSPND

D. Product Code. Use Acronyms provided

Product Codes are generally under the umbrella of the Material Type. If the User knows the Product Code, it can be entered directly in this field without a Material Type, and the query will return only those products of interest. Another reason to search by Product Code is that after getting a Table of multiple products, with multiple Codes listed, the user may want to refine the search with just the Product Codes of interest.

Some Product Codes will also have a Brand Name, but the application will return only one Brand Name for each. For example, Product Code “334-FRAP (FINE)” will have a Brand Name “Stockpile”. This application will return one Product Code for each facility, but there may be more than one approved stockpile. Check with the Production Facility if more information is needed.

Aggregate Product codes can be found in the Instructions for Computer Coding Aggregate Test Data at the link:

https://fdotwww.blob.core.windows.net/sitefinity/docs/default-source/materials/laboratory/geotechnical/aggregates/documents/testdata.pdf?sfvrsn=fa99dc2_2

- C1 – C60’s
- F1 – F20’s
- B1 – B12

Other Product Codes:

334-CRUSHED RAP (*Acronym: Reclaimed Asphalt Pavement*)
334-FRAP (COARSE) (*F = Fractionated*)
334-FRAP (FINE)
BAGHOUSE FINES
Cement (*Various Types*)
Fly Ash - Class F
GROUND TIRE RUBBER
HIGH POLYMER
Metakaolin
MILLED MATERIAL
PG 76-22 (ARB)
PG 76-22 (PMA)
PG 82-22 (PMA)
PLASTIC FENDER PILES
PLASTIC LUMBER/BOARDS
PLASTIC WALES/LUMBER
PRIME COAT
RAS (*Acronym: Recycled Asphalt Shingles*)
SAND
Silica Fume
Slag
SPIRAL RIBBED ALUMINUM PIPE
SPIRAL RIBBED STEEL PIPE
TRACKLESS TACK
TRADITIONAL TACK
Ultra Fine Fly Ash

E. Facility ID (Type ahead)

Facility IDs start with either letters (Alpha) or numbers/digits (#)

Facility Type	ID Format	Example
Asphalt Plant	A#####	A0103
Concrete Plant	##-#### (2 digits followed by hyphen and 3 digits)	01-002
Aggregate Mine	##### (No hyphens)	01495
Aggregate Redistribution Terminal	TM###	TM155
Out-of-State, Out of Country Aggregate Mine	AlphaAlpha###	AL149 (Alabama) BA348 (Bahamas)

Note: Hyphen **required** after second # in Concrete.

F. Facility Type

As noted above in the Facility ID section, there are three options for Facility Type:



Mine is used for Aggregates only. Plants and Terminals can be used with other Material Types such as Asphalt, Asphalt Binder, or Concrete Plants etc.

G. Facility Status

Select one of the available options.

Aggregate Mines and Terminals, and Non Structural Concrete Plants have a Facility Status. Other Production Facilities such as Asphalt or Concrete Plants have approvals based on a Quality Control Plan Status, not the Facility itself. Rather than Facility Status, use the Quality Control Plan Status query field for facilities with Material Types other than Aggregate or Non Structural Concrete. A search for any Plant that includes a Facility Status will not yield results. Use Quality Control Plan Status instead described below.

H. Quality Control Plan Status

Some Production Facilities are approved based on the status of their quality control plan. Select one of the available options when searching for a Plant with a Material Type that is not Aggregate or Non Structural Concrete. If a Quality Control Plan Status is **not** selected as a filter for a Plant, the report returns the Quality Control Plan Status to ensure that the user is aware of the Plant's operating state.

Approved
Expired
In Review
Inactive
Removed
Suspended

MAC has a report for more Product details linked to Quality Control Plan Status and operates with similar search features, but without the maps.

I. Company

Type a known company or search the type-ahead list. The program has a convenient type-ahead feature for Company names as soon as the first letter is entered in this field. Generally, it is assumed that the user knows the name of the Company and is searching for locations. However, the type-ahead feature allows the user to enter partial words that aid in identifying and selecting a Company.

J. Managing District

Select one of the available options. Additional Districts can be added by selecting "Managing District" repeatedly. Once selected, a district can be removed by moving the cursor over the District number and clicking once the "x" appears.

1
2
3
4
5
6
7
SMO

Table 1 Counties and FDOT Code Numbers Sorted by Alphabet and Number

COUNTY NAME (Alpha)	COUNTY NUMBER	DISTRICT	COUNTY NAME	COUNTY NUMBER (Numeric)	DISTRICTS
ALACHUA	26	2	CHARLOTTE	1	1
BAKER	27	2	CITRUS	2	7
BAY	46	3	COLLIER	3	1
BRADFORD	28	2	DE SOTO	4	1
BREVARD	70	5	GLADES	5	1
BROWARD	86	4	HARDEE	6	1
CALHOUN	47	3	HENDRY	7	1
CHARLOTTE	1	1	HERNANDO	8	7
CITRUS	2	7	HIGHLANDS	9	1
CLAY	71	2	HILLSBOROUGH	10	7
COLLIER	3	1	LAKE	11	5
COLUMBIA	29	2	LEE	12	1
DADE	87	6	MANATEE	13	1
DE SOTO	4	1	PASCO	14	7
DIXIE	30	2	PINELLAS	15	7
DUVAL	72	2	POLK	16	1
ESCAMBIA	48	3	SARASOTA	17	1
FLAGLER	73	5	SUMTER	18	5
FRANKLIN	49	3	ALACHUA	26	2
GADSDEN	50	3	BAKER	27	2
GILCHRIST	31	2	BRADFORD	28	2
GLADES	5	1	COLUMBIA	29	2
GULF	51	3	DIXIE	30	2
HAMILTON	32	2	GILCHRIST	31	2
HARDEE	6	1	HAMILTON	32	2
HENDRY	7	1	LAFAYETTE	33	2
HERNANDO	8	7	LEVY	34	2
HIGHLANDS	9	1	MADISON	35	2
HILLSBOROUGH	10	7	MARION	36	5
HOLMES	52	3	SUWANNEE	37	2
INDIAN RIVER	88	4	TAYLOR	38	2
JACKSON	53	3	UNION	39	2
JEFFERSON	54	3	BAY	46	3
LAFAYETTE	33	2	CALHOUN	47	3
LAKE	11	5	ESCAMBIA	48	3
LEE	12	1	FRANKLIN	49	3
LEON	55	3	GADSDEN	50	3
LEVY	34	2	GULF	51	3
LIBERTY	56	3	HOLMES	52	3

Table 1 (cont.) Counties and FDOT Code Numbers Sorted by Alphabet and Number

COUNTY NAME (Alpha)	COUNTY NUMBER	DISTRICT	COUNTY NAME	COUNTY NUMBER (Numeric)	DISTRICTS
MADISON	35	2	JACKSON	53	3
MANATEE	13	1	JEFFERSON	54	3
MARION	36	5	LEON	55	3
MARTIN	89	4	LIBERTY	56	3
MONROE	90	6	OKALOOSA	57	3
NASSAU	74	2	SANTA ROSA	58	3
OKALOOSA	57	3	WAKULLA	59	3
OKEECHOBEE	91	1	WALTON	60	3
ORANGE	75	5	WASHINGTON	61	3
OSCEOLA	92	5	BREVARD	70	5
PALM BEACH	93	4	CLAY	71	2
PASCO	14	7	DUVAL	72	2
PINELLAS	15	7	FLAGLER	73	5
POLK	16	1	NASSAU	74	2
PUTNAM	76	2	ORANGE	75	5
SANTA ROSA	58	3	PUTNAM	76	2
SARASOTA	17	1	SEMINOLE	77	5
SEMINOLE	77	5	ST JOHNS	78	2
ST JOHNS	78	2	VOLUSIA	79	5
ST LUCIE	94	4	BROWARD	86	4
SUMTER	18	5	DADE	87	6
SUWANNEE	37	2	INDIAN RIVER	88	4
TAYLOR	38	2	MARTIN	89	4
UNION	39	2	MONROE	90	6
VOLUSIA	79	5	OKEECHOBEE	91	1
WAKULLA	59	3	OSCEOLA	92	5
WALTON	60	3	PALM BEACH	93	4
WASHINGTON	61	3	ST LUCIE	94	4

FDOT DISTRICTS & COUNTY SEATS



- ★ County Seat
- District 1
- District 2
- District 3
- District 4
- District 5
- District 6
- District 7

Map prepared by:
 FDOT Geographic Info Systems
 605 Sawannee St MS-5L
 Tallahassee, FL 32399
 (850) 414-4111
www.fdot.gov/gis/
 July 24, 2019



District 3

- 46 BAY
- 47 CALHOUN
- 48 ESCAMBIA
- 49 FRANKLIN
- 50 GADSDEN
- 51 GULF
- 52 HOLMES
- 53 JACKSON
- 54 JEFFERSON
- 55 LEON
- 56 LIBERTY
- 57 OKALOOSA
- 58 SANTAROSA
- 59 WAKULLA
- 60 WALTON
- 61 WASHINGTON



District 2

- 26 ALACHUA
- 27 BAKER
- 28 BRADFORD
- 71 CLAY
- 29 COLUMBIA
- 30 DIXIE
- 72 DUVAL
- 31 GILCHRIST
- 32 HAMILTON
- 33 LAFAYETTE
- 34 LEVY
- 35 MADISON
- 74 NASSAU
- 76 PUTNAM
- 78 STJOHNS
- 37 SUWANNEE
- 38 TAYLOR
- 39 UNION

District 7

- 2 CITRUS
- 8 HERNANDO
- 10 HILLSBOROUGH
- 14 PASCO
- 15 PINELLAS



District 5

- 70 BREVARD
- 73 FLAGLER
- 11 LAKE
- 36 MARION
- 75 ORANGE
- 92 OSCEOLA
- 77 SEMINOLE
- 18 SUMTER
- 79 VOLUSIA

District 1

- 1 CHARLOTTE
- 3 COLLIER
- 4 DESOTO
- 5 GLADES
- 6 HARDEE
- 7 HENDRY
- 9 HIGHLANDS
- 12 LEE
- 13 MANATEE
- 91 OKEECHOBEE
- 16 POLK
- 17 SARASOTA



District 4

- 86 BROWARD
- 88 INDIANRIVER
- 89 MARTIN
- 93 PALMBEACH
- 94 STLUCIE



District 6

- 87 MIAMI-DADE
- 90 MONROE



Chapter 4 Example Searches

A. Search for Aggregate Mines

The user wants to search for Approved Aggregate Facilities in District 6: The user selects filters with the field values: 1) Approved; 2) Aggregate Facilities; and 3) in District 6, fields shown below, then clicks the “Search” button. The app renders the map in Figure 1 with 13 Aggregate Facilities found. If the Facility Type “Mine” was selected only 12 results would be found because District Six has one Redistribution Terminal. The user can get the Facility IDs from the report, or by selecting the blue dot, location marker, with the cursor. If the user entered a unique Facility ID, only that facility’s information is returned, as in Figure 2.

The “Reset” button can be used to clear all search fields. If the user wants to add another filter, it can be done by adding the filter and pressing the “Search”, without clearing all fields. Results can be exported to an Excel file.

B. Search for Asphalt Plants

The user wants to search for the Asphalt Plants with Crushed Reclaimed Asphalt Pavement (RAP) in Duval and Flagler Counties. The user selects filters with the field values: 1) **Material Type:** Asphalt; 2) **Product Name:** Crushed rap stockpile; and 3) **Counties:** Duval, Flagler. The query filters are shown in Figure 3.

The app renders the map in Figure 4 with six Asphalt Plants found, all in Duval and none in Flagler County. Only five points are immediately visible, but further examination reveals two neighboring plants in Figure 5, only seen after expanding the lower region of the map.

Figure 1 Aggregate Mines: Search Results by Material Type, Product Status and Managing District

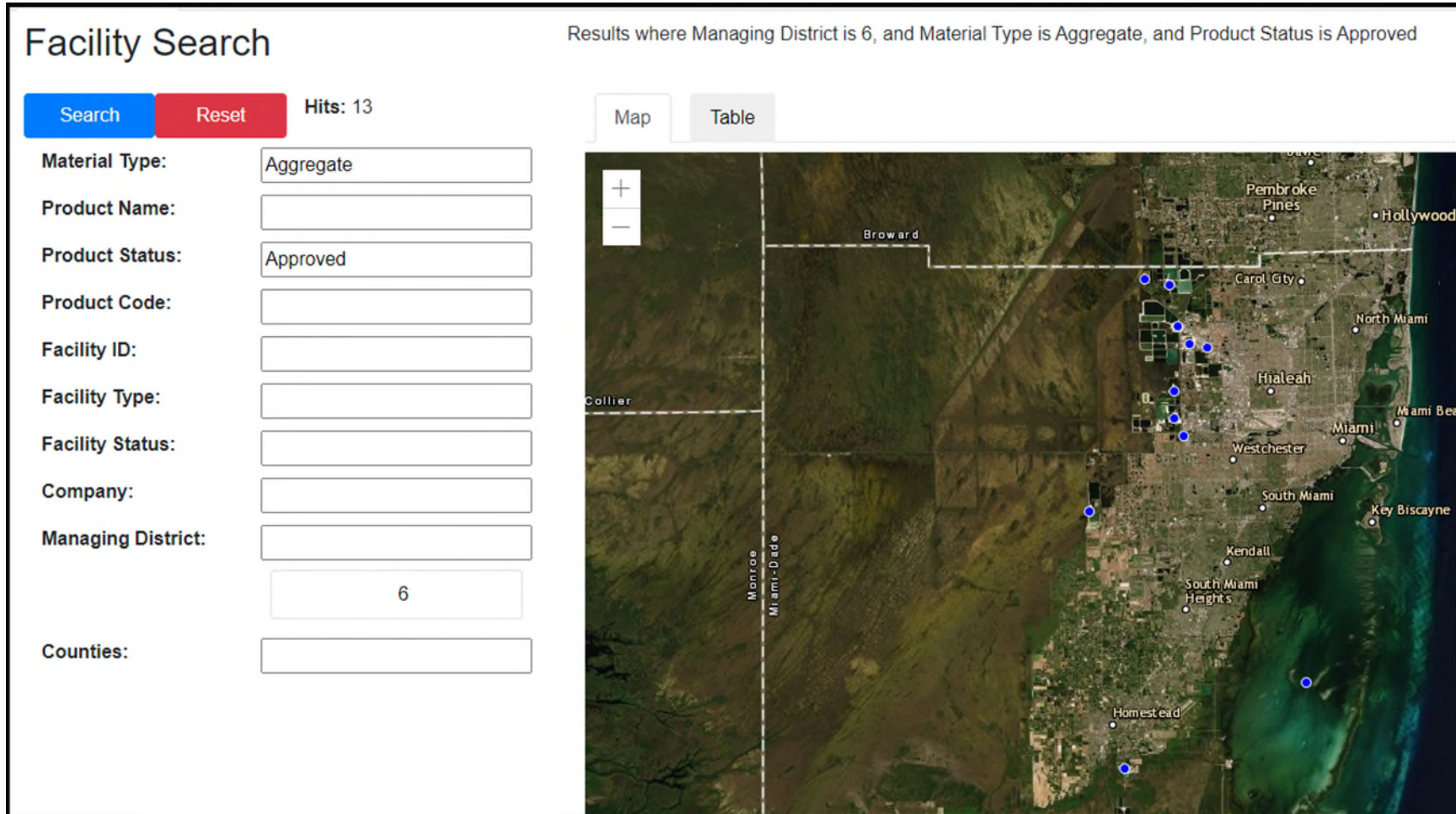


Figure 2 Search by Product Status and Facility ID

Facility Search Results where Facility Id is ##### and Managing District is 6, and Product Status is Approved

Hit: 1

Material Type:
 Product Name:
 Product Status:
 Product Code:
 Facility ID:
 Facility Type:
 Facility Status:
 Company:
 Managing District:
 Counties:

Company	Facility Type	Source Facility ID	Managing District	Facility Status	Who's V
Facility ID: #####					
Materials Company	Mine		6	Approved	Nobody
Products					
Product Code	Product Name	Product Status	Process Number		
B01	Limerock Base	Approved	1		
B01	Limerock Base	Approved	2		
C06	#4 Stone	Approved	1		
C10	#57 Stone	Approved	2		
C12	#67 Stone	Approved	2		
C17	#89 Stone	Approved	1		
C42	S1A Stone	Approved	1		
C52	S1B Stone	Approved	1		
F03	Screenings (Concrete)	Approved	1		
F23	Screenings	Approved	1		

The report also returns the Contact Person, Contact Email, and Contact Phone Number

Figure 3 Search by Material Type, Product Name, and County

Facility Search

Hits: 0

Material Type:

Product Name:

Product Status:

Product Code:

Facility ID:

Facility Type:

Facility Status:

Company:

Managing District:

Counties:

Figure 4 Asphalt Plants: Search by Material Type and Product Name

Facility Search Results where Counties are Duval or Flagler, and Material Type is Asphalt, and Product Name is Crushed rap stockpile

Search Reset Hits: 6

Map Table

Material Type:

Product Name:

Product Status:

Product Code:

Facility ID:

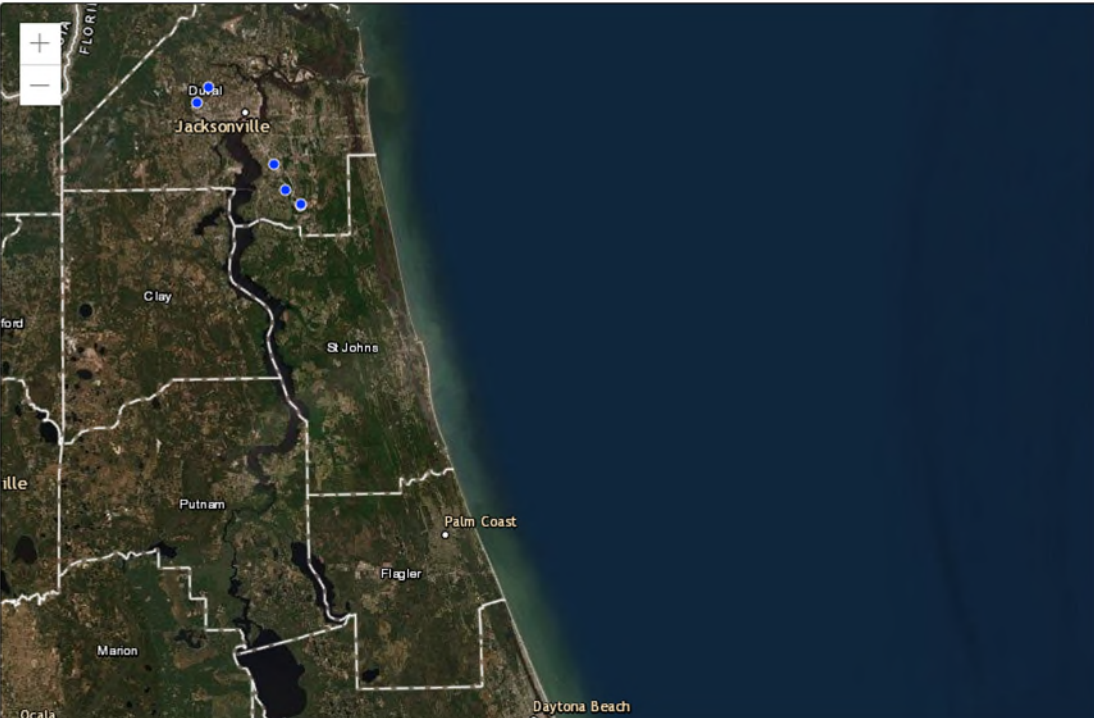
Facility Type:

Facility Status:

Company:

Managing District:

Counties:



The map displays the state of Florida with county boundaries. Blue dots representing asphalt plants are clustered in Duval County, near Jacksonville, and in Flagler County, near Palm Coast. Other labeled counties include Clay, St. Johns, Putnam, Marion, and Orange. The city of Jacksonville is also labeled. The map includes a zoom-in (+) and zoom-out (-) control in the top left corner.

Figure 5 Asphalt Plants Shown Separately After Expansion

