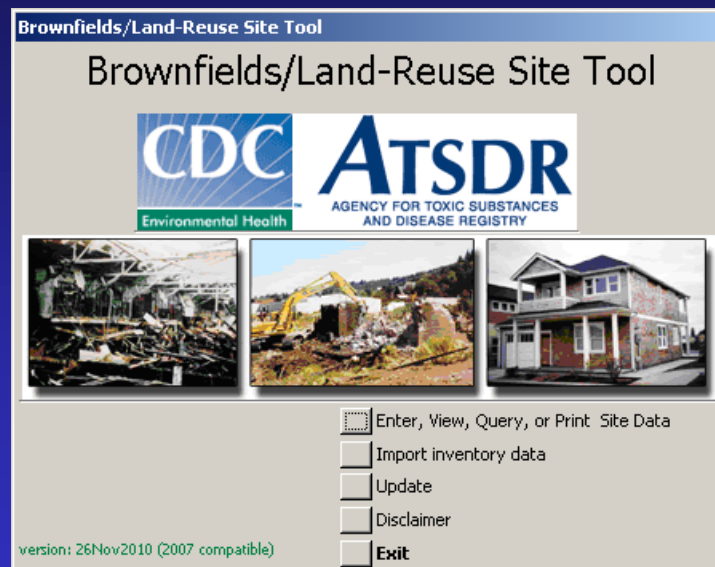


# *Tour Guide for the ATSDR Brownfields/Land Reuse Site Tool*



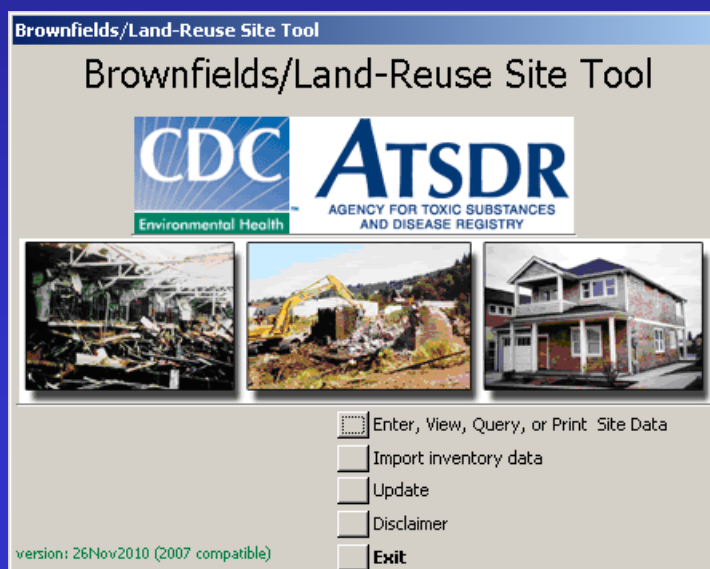
June 23, 2014

# ***Who We Are - ATSDR***

- ATSDR is a federal public health agency of the U.S. Department of Health and Human Services.
- Our goal is to prevent harmful exposures and diseases related to toxic substances.
- Our Brownfields/Land Reuse Initiative integrates public health principles into redevelopment.

# Land Reuse Screening Tool

- Can be used for Brownfields inventory
- Rapid site assessment
- Easy to use
- Uses site information to assess public health involvement.
- Includes an integrated Dose Calculator module
- Requires Microsoft® Access®



- This Tool is an inventory, rapid site screening, and multiple chemical exposure dose calculating tool that allows users to assess sites by past/future use, institutional controls, sensitive populations, and suspected or confirmed contamination.

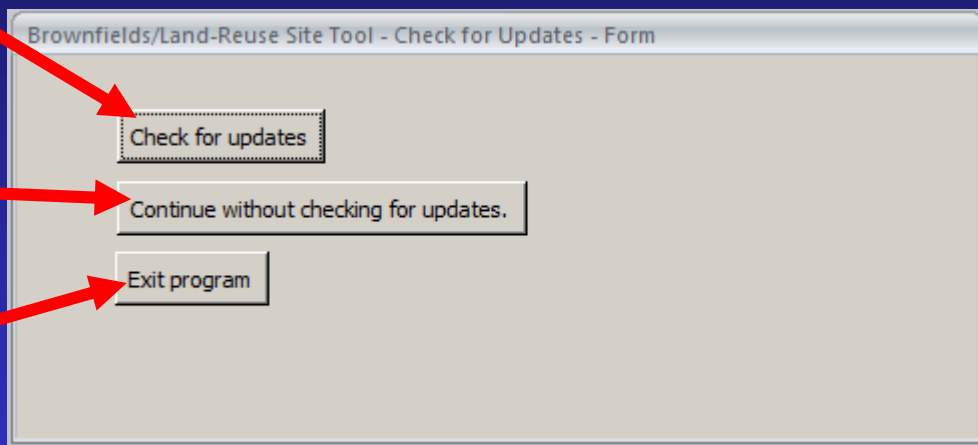


- Evaluate exposures by defining exposed populations and sub-groups, multiple exposure pathways, user specific ingestion rates for population groups or use defaults
- Calculate doses using ranges of exposure parameters, 95% confidence intervals, geometric mean, and other statistical parameters.
- Test the data for Normal/Log Normal distributions Import and process laboratory data (10,000 data points per minute throughput)
- Import site data from Excel.
- Export data.
- Query data.
- Troubleshoot analytical problems.
- Set up quality-assurance or quality-control programs.
- Compare various laboratory methods.

**Click here to check for updates.**

**Click here to continue without checking.**

**Click here to Exit.**



Brownfields/Land-Reuse Site Tool - Check for Updates - Form

Check for updates

Continue without checking for updates.

Exit program

Start by clicking on  
the button labeled  
“Enter, View, Query,  
or Print Site Data.”

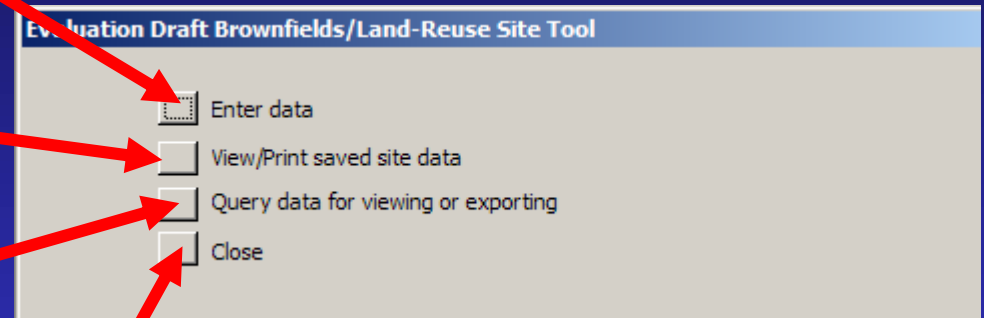


**Click here to enter new site data.**

**Click here to View or Print saved data.**

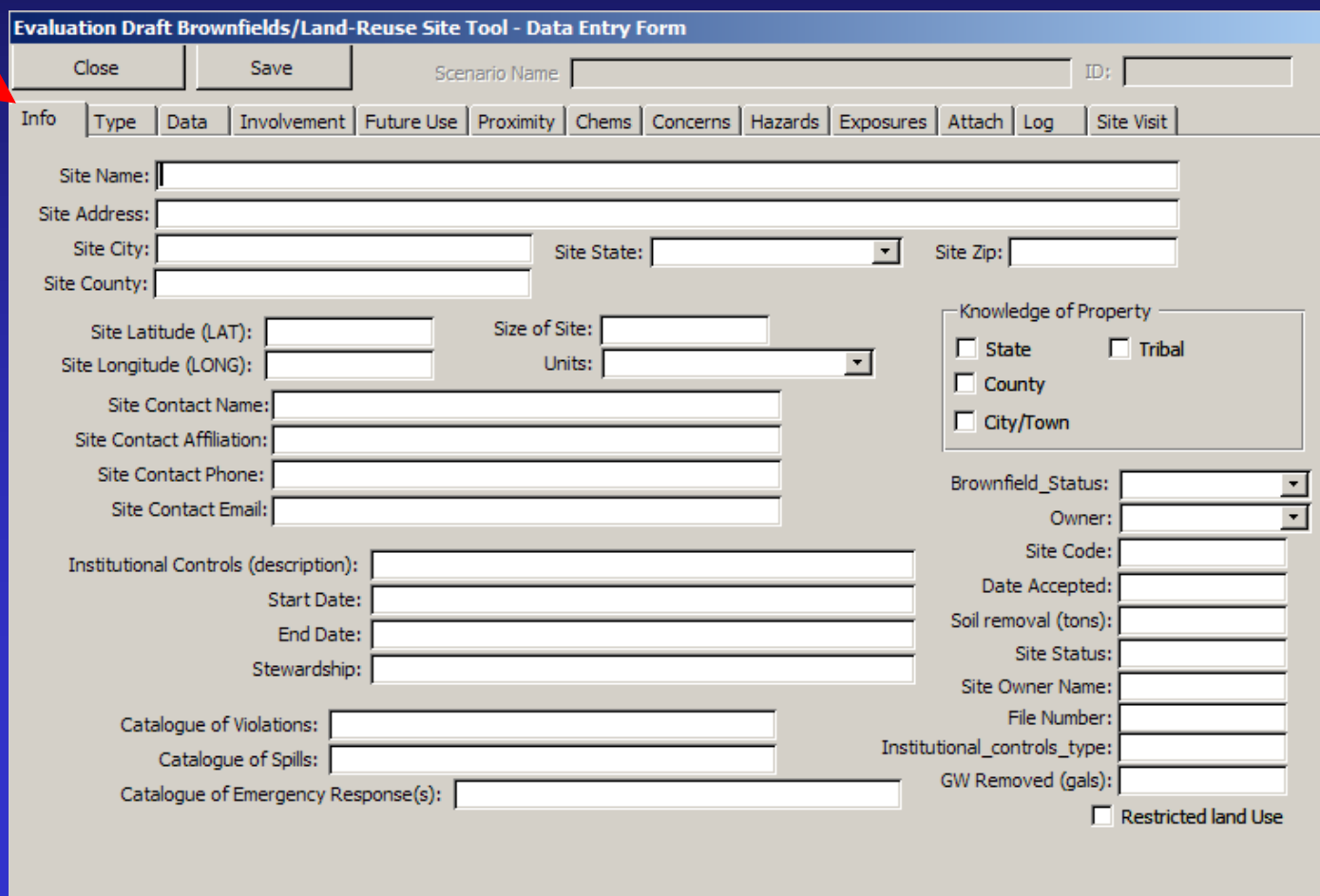
**Click here to Query data for viewing or exporting as a CSV file.**

**Click here to close the dialog box.**





The information for each site is entered on a series of 13 screens. The screens are also known as “pages.” The first page contains information related to “Site Information.” Enter the site information, then click on the name of the next “page.”



**Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form**

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Site Name: Site Address: Site City: Site State: Site Zip: Site County:

Site Latitude (LAT): Site Longitude (LONG): Size of Site: Units:

Site Contact Name: Site Contact Affiliation: Site Contact Phone: Site Contact Email:

Institutional Controls (description): Start Date: End Date: Stewardship:

Catalogue of Violations: Catalogue of Spills: Catalogue of Emergency Response(s):

Knowledge of Property  
☐ State ☐ Tribal  
☐ County  
☐ City/Town

Brownfield\_Status: Owner: Site Code: Date Accepted: Soil removal (tons): Site Status: Site Owner Name: File Number: Institutional\_controls\_type: GW Removed (gals):

☐ Restricted land Use

Enter “Past type(s).” Select from the list and add to the box to the right.

Evaluation Draft Brownfields/Land Re-use Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Past Use(s) Site Type lookup list (press enter after you enter a new type)

Former Industrial Manufacturing Site  
Former Industrial Manufacturing Site  
Hospital  
Illegal Dumping  
Incinerator  
Lagoon/Ponds/Impoundments  
Landfill/Junkyard/Dump  
Leaking Underground Storage Tank (LUST / U  
Light Bulb Mfg  
Livestock Confinement Operations (CAFO)  
Mall  
Meth Lab  
Military  
Military Equipment  
Mill  
Mining  
Mixed Use (Residential/Commercial)  
Municipal  
Municipal Offices  
Municipal Wells  
Munitions

add >>  
remove <<  
a new type  
add >>  
remove <<  
a new type  
add >>  
remove <<

Past Use(s)  
Coal Gasification  
Commercial

Current Use(s)  
Dry Cleaners

Adjacent Site(s)  
Hospital

Select from list, or enter a new value then press ente.

**Enter “Current Use(s).” Select from the list and add to the box to the right.**

**Brownfields/Land-Reuse Site Tool - Data Entry Form**

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Past Use(s) Site Type lookup list (press enter after you enter a new type)

☐ Current Use(s) Site Type lookup list (press enter after you enter a new type)

☐ Adjacent Site(s)

Site Type lookup list (press enter after you enter a new type)

Landfill/Junkyard/Dump  
Leaking Underground Storage Tank (LUST / U  
Light Bulb Mfg  
Livestock Confinement Operations (CAFO)  
Mall  
Meth Lab  
Military  
Military Equipment  
Mill  
Mining  
Mixed Use (Residential/Commercial)  
**Municipal**  
Municipal Offices  
Municipal Wells  
Munitions  
Open Burning/Detonation  
Ordnance  
Park/Forest  
Pesticide Storage  
Pharmaceuticals

Past Use(s)

Coal Gasification  
Commercial

Current Use(s)

Dry Cleaners

Adjacent Site(s)

Enter “Adjacent Site(s).” Select from the list and add to the box to the right.

Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name: ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Past Use(s) Site Type lookup list (press enter after you enter a new type)

add >> remove << Delete This Site Type

Past Use(s)

Coal Gasification  
Commercial

☒ Current Use(s) Site Type lookup list (press enter after you enter a new type)

add >> remove << Delete This Site Type

Current Use(s)

Dry Cleaners  
Municipal Offices

☒ Adjacent Site(s) Site Type lookup list (press enter after you enter a new type)

add >> remove << Delete This Site Type

Adjacent Site(s)

Lagoon/Ponds/Impoundments  
Landfill/Junkyard/Dump  
Leaking Underground Storage Tank (LUST / U  
Light Bulb Mfg  
Livestock Confinement Operations (CAFO)  
Mall  
Meth Lab  
Military  
Military Equipment  
Mill  
Mining  
Mixed Use (Residential/Commercial)  
Municipal  
Municipal Offices  
Municipal Wells  
Munitions  
Open Burning/Detonation  
Ordinance  
Park/Forest  
Pesticide Storage

Enter information related to data available for this site.



Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Data From Various Media

- ☐ Air
- ☐ Biota
- ☒ Soil
- ☐ Well Data
- ☒ Vapor Intrusion (soil gas)
- ☐ Food data
- ☐ Sediment data
- ☐ Product Container

Reports Available

- ☒ City Historical Reports
- ☐ Emergency Response
- ☒ Phase One Environmental Site Assessment
- ☒ Phase Two (sampling data) Environmental Site Assessment
- ☐ Removal Action Memo
- ☐ Pollution Report (POLREP)

Add Data To Scenario

☐ Contains Linked Air Data

☐ Contains Linked Soil Data

☐ Contains Linked Water Data

☐ Contains Linked Fish Data

☐ Contains Linked Shower Data

☒ Children Attracted to Site

☒ Animals Attracted to Site

Data Available (other):

☐ Inventory Conducted Date Inventory Conducted:

☐ Buildings on Site Construction Date of the Bulding(s):

☐ Subsistence Activities Observed on Site

☐ Subsistence Resources Affected

☐ Community Plan Available Community Plan (year):

Name of Interviewer: Name of People Interviewed:

Contamination Source

Local Resources Available to Assist:

Enter information on this page labeled “Data” then click the next “page.” If you will be importing analytical data, save the site data first and provide a “scenario name.”

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Data From Various Media

☐ Air

☐ Biota

☐ Soil

☐ Well Data

☐ Vapor Intrusion (soil gas)

☐ Food data

☐ Sediment data

☐ Product Container

Reports Available

☐ City Historical Reports

☐ Emergency Response

☐ Phase One Environmental Site Assessment

☐ Phase Two (sampling data) Environmental Site Assessment

☐ Removal Action Memo

☐ Pollution Report (POLREP)

Data Available (other):

Add Data To Scenario

☐ Contains Linked Air Data

Please save the scenario before adding data.

OK

☐ Inventory Conducted Date Inventory Conducted:

☐ Buildings on Site Construction Date of the Building(s):

☐ Subsistence Activities Observed on Site

☐ Subsistence Resources Affected

☐ Community Plan Available Community Plan (year):

Name of Interviewer: Name of People Interviewed:

Children Attracted to Site

Animals Attracted to Site

Local Resources Available to Assist:

ATSDR

Enter information on this page labeled “Involvement” then click the next “page.”

The screenshot shows a web-based data entry form titled "Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form". At the top, there are buttons for "Close" and "Save", followed by input fields for "Scenario Name" and "ID:". Below these are several tabs: "Info", "Type", "Data", "Involvement", "Future Use", "Proximity", "Chems", "Concerns", "Hazards", "Exposures", "Attach", "Log", and "Site Visit". The "Involvement" tab is currently selected. The main content area of the form contains five rows, each with a checkbox, a label, and a text input field. The labels are "Prior ATSDR Involvement", "Prior State Involvement", "Prior County Involvement", "Prior City/Town Involvement", and "Prior Tribal Involvement". Each row is followed by the text "by Whom, Date(s):" and an empty text input field. A red arrow points from the text above to the "Save" button.

Info	Type	Data	Involvement	Future Use	Proximity	Chems	Concerns	Hazards	Exposures	Attach	Log	Site Visit
<div><input type="checkbox"/> Prior ATSDR Involvement by Whom, Date(s): <input type="text"/></div> <div><input type="checkbox"/> Prior State Involvement by Whom, Date(s): <input type="text"/></div> <div><input type="checkbox"/> Prior County Involvement by Whom, Date(s): <input type="text"/></div> <div><input type="checkbox"/> Prior City/Town Involvement by Whom, Date(s): <input type="text"/></div> <div><input type="checkbox"/> Prior Tribal Involvement by Whom, Date(s): <input type="text"/></div>												

Enter “future Use” information. Select from the list and add to the box to the right.

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Future Use Lookup List (press enter after you enter a new use)

- Agricultural
- Commercial
- Government
- Housing
- Industrial
- Manufacturing
- Mixed Use
- Open Office Park
- Recreational Park
- Sidewalk
- Skating Park

add >>

remove <<

Future Use(s)

Daycare Center  
School



Enter information on this page labeled “Proximity” then click the next “page.”

The screenshot shows a web-based data entry form titled "Evaluation Draft Brownfields/Land Re-use Site Tool - Data Entry Form". At the top, there are buttons for "Close" and "Save", followed by fields for "Scenario Name" and "ID:". Below these are several tabs: "Info", "Type", "Data", "Involvement", "Future Use", "Proximity", "Chems", "Concerns", "Hazards", "Exposures", "Attach", "Log", and "Site Visit". The "Proximity" tab is currently selected. Under this tab, there are four input fields with labels: "Distance to Nearest Residence:", "Distance to Nearest Daycare Center:", "Distance to Nearest School:", and "Distance to Nearest Nursing Home:". A red arrow originates from the "Proximity" tab and points directly to the first input field, "Distance to Nearest Residence:".

The information on this page is descriptive. Only chemical names will be saved. Select the chemical name then click “add>>” to add it to the site information to be saved. Analytical data can only be imported on the Data page.

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Air

Chemical (press enter after entering a new chemical)

delete this chemical add >>

CASN remove <<

Synonym

Chemical(s) in Air

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

☒ Soil

Chemical (press enter after entering a new chemical)

delete this chemical add >>

CASN 000050-00-0 remove <<

Synonym

Chemical(s) in Soil

FORMALDEHYDE

☒ Water

Chemical (press enter after entering a new chemical)

delete this chemical add >>

CASN remove <<

Synonym 1,1-DCE

Chemical(s) in Water

1,1-DCE

Select the chemical by name...

Brownfields/Land Re-use Site Tool - Data Entry Form

Close Save Scenario Name Parcel 3B- Center Street ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Chemical (press enter after entering a new chemical)

☒ Air

☐ Soil

☐ Water

CASN

Synonym

POLYCHLORINATED BIPHENYLS

POLYMETHYLENE POLYPHENYLISOCYANATE

POTASSIUM CYANIDE

Potassium Perchlorate

POTASSIUM SILVER CYANIDE

Prochloraz

Profluralin

PROMETON

PROMETRYN

PRONAMIDE

PROPACHLOR

PROPANIL

PROPARGITE

Propargyl Alcohol

PROPAZINE

Propiconazole

Propionaldehyde

PROPOXUR

Propyl benzene

Propylene

Chemical(s) in Air

1, 1, 2-TRICHLORO-1, 2, 2-TRIFLUOROETHANE

Chemical(s) in Soil

Chemical(s) in Water

CASN

Synonym

remove <<

Select the chemical by CASN...

Brownfields/Land Re-use Site Tool - Data Entry Form

Close Save Scenario Name Parcel 3B- Center Street ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Air

Chemical (press enter after entering a new chemical)

delete this chemical add >>

CASN

Synonym

000067-64-1

000067-66-3

000067-72-1

000068-12-2

000070-25-7

000070-30-4

000071-36-3

000071-43-2

000071-55-6

000072-20-8

000072-43-5

000072-54-8

000072-55-9

000074-11-3

000074-31-7

000074-83-9

delete this chemical add >>

CASN

Synonym

remove <<

Chemical(s) in Air

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

POLYCHLORINATED BIPHENYLS

Chemical(s) in Soil

Chemical(s) in Water

Select the chemical by Synonym...

Brownfields/Land Re-use Site Tool - Data Entry Form

Close Save Scenario Name Parcel 3B - Center Street ID:

Int Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Air

Chemical (press enter after entering a new chemical)

delete this chemical add >>

CASN remove <<

Synonym WEED DRENCH

VINYLDENE CHLORIDE  
VINYLDENE DICHLORIDE  
VIOLOGEN, METHYL-  
WEED DRENCH  
WHITE PHOSPHORUS  
WLN: G1G  
WLN: GXGGG.  
WLN: GYGUYGG  
WLN: QR BG CG DG EG FG  
WOOD ALCOHOL  
XENENE  
Y-CHLOROPROPYLENEOXIDE  
YELLOW PHOSPHORUS  
ZINC  
ZINC CYANIDE  
ZINC DICYANIDE

Select the synonym from list. No new synonyms can be entered.

Chemical(s) in Air

1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE  
BENZENE  
POLYCHLORINATED BIPHENYLS

☐ Soil

CASN

Synonym

☐ Water

CASN

Synonym

remove <<

Chemical(s) in Water

Enter health and other concerns by selecting from the list and clicking “add>>.”

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Health Concerns

Health Concern Lookup List (press enter after you enter a new concern)

- cancer
- cardiovascular
- death
- dermal
- endocrine
- eye
- gastrointestinal
- genitourinary
- genotoxic
- hematological
- hepatic
- immunological
- kidney
- lymphoreticular
- metabolic
- musculoskeletal
- nausea
- neurological
- non distinct aches pain
- non distinct anxiety

add >>

remove <<

Health Concern(s)

eye irritation

☒ Other Concerns

Other Concern(s)

air quality

noise

add >>

remove <<

Enter information on this page labeled “Hazards” then click the next “page.” The hazards are entered by selecting from the list and clicking “add>>.”

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Hazards Lookup List (press enter after entering a new hazard)

- above ground storage tanks
- asbestos containing materials
- batteries
- biohazards
- compressed gas cylinders
- dioxin
- drug lab waste
- lagoons
- light fixtures (Hg)
- other metals
- paint
- pesticides
- petroleum
- polycyclic aromatic hydrocarbons (PAH)
- radioactive waste
- tailing piles
- tires
- trash piles
- underground storage tank (UST)
- unexploded ordnance (UXO)

add >>

remove <<

Hazards on Site

- 55-gallon drums
- debris
- transformers

Enter information on this page labeled “Exposure.”  
Then click on the tab labeled “Attach.”

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close

Save

Scenario Name

ID:

Info

Type

Data

Involvement

Future Use

Proximity

Chems

Concerns

Hazards

Exposures

Attach

Log

Site Visit

Potential Exposure Routes

☐ Air Exposure Route

☐ Soil Exposure Route

☐ Water Exposure Route

☐ Sediment Exposure Route

☐ Soil Gas Exposure Route

Potential Exposed Populations

☐ Adults

☐ Children

☐ Ederly

Brief description of who is accessing site:

Frequency of Site Access:

Exposure scenarios

☐ Secure Perimeter Fence

☐ Biking

☐ Skiing

☐ Playing

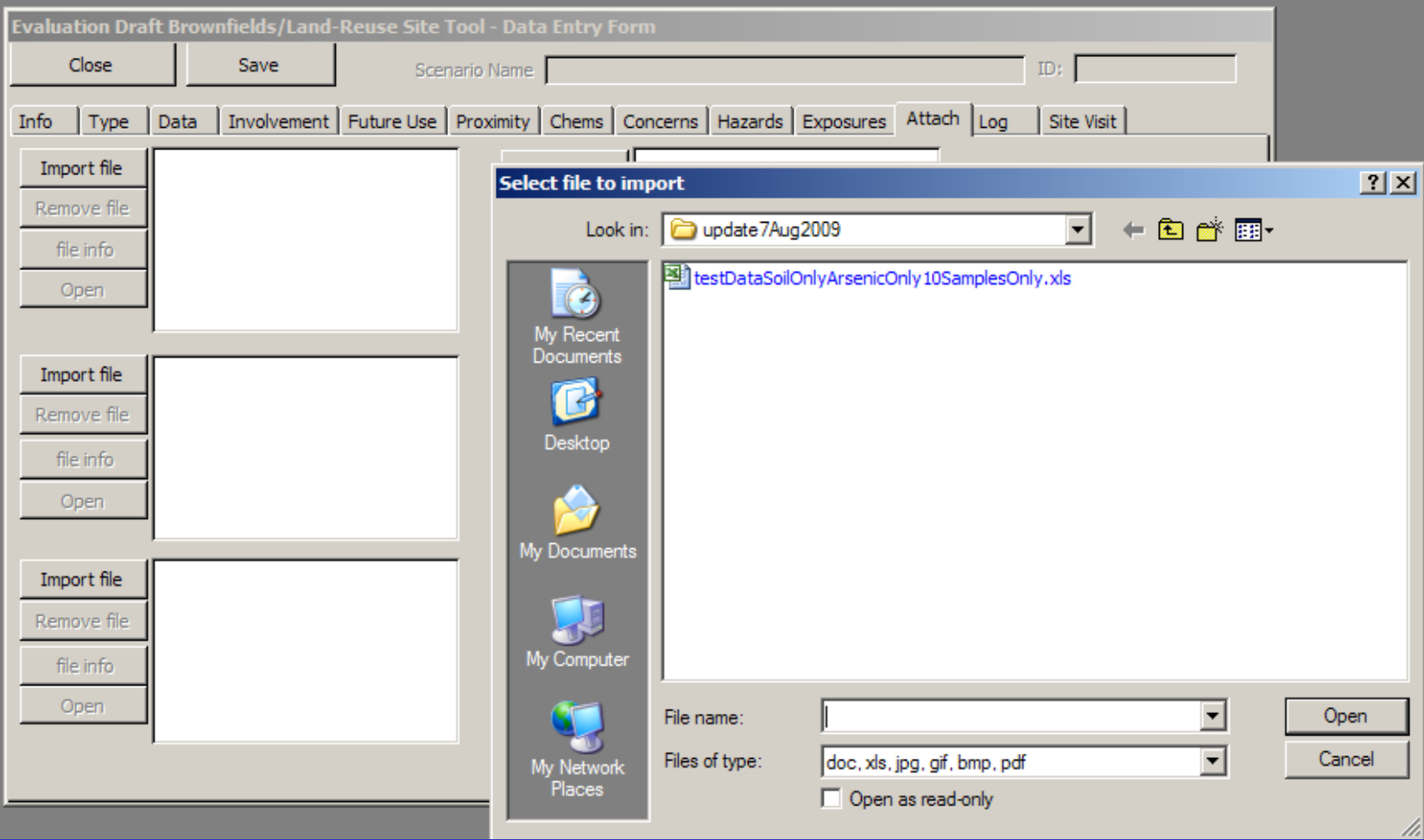
☐ Swimming

☐ Homeless Shelter

Other:



You may attach up to 5 files (documents, spreadsheets, image files or PDF files).



Enter additional information about the site here.

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close

Save

Scenario Name

ID:

Info

Type

Data

Involvement

Future Use

Proximity

Chems

Concerns

Hazards

Exposures

Attach

Log

Site Visit

Inquiries About Site:

Enter additional information about this site here.

**Site visit information (if available) can be entered on this page and sub-pages.**

Evaluation Draft Brownfields/Land Re-use Site Tool Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

☒ Enter Site Visit Data

**Site Visit Information**

Status Physical Hazard/ Water Distances Sensitive Populations Contact Info Community Other Observations

☐ Active

☐ Inactive

☐ Abandoned

☐ Residential

☐ Commercial

☐ Agricultural

☐ Industrial

# Site Visit sub-pages: Physical Hazard/Water

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close

Save

Scenario Name:

ID:

Info

Type

Data

Involvement

Future Use

Proximity

Chems

Concerns

Hazards

Exposures

Attach

Log

Site Visit

☒ Enter Site Visit Data

Site Visit Information

Status

Physical Hazard/ Water

Distances

Sensitive Populations

Contact Info

Community

Other Observations

Physical Hazards

Private/Public Water Sources

☐ Dilapidated

☐ Barrels

☐ Unlimited Access

☐ Pits Ponds Lagoons

☐ Private Wells

☐ Public Surface

☐ Public Groundwater

# Site Visit sub-pages: Distances

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close

Save

Scenario Name

ID:

Info

Type

Data

Involvement

Future Use

Proximity

Chems

Concerns

Hazards

Exposures

Attach

Log

Site Visit

☒ Enter Site Visit Data

Site Visit Information

Status

Physical Hazard/ Water

Distances

Sensitive Populations

Contact Info

Community

Other Observations

Distance to Residenceunits (feet, miles, meters, etc)

Distance to Day Care Centerunits (feet, miles, meters, etc)

Distance to Schoolunits (feet, miles, meters, etc)

Distance to Nursing Homeunits (feet, miles, meters, etc)

# Site Visit sub-pages: Sensitive Populations

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use Proximity Chem Concerns Hazards Exposures Attach Log Site Visit

☒ Enter Site Visit Data

Site Visit Information

Status Physical Hazard/ Water Distances Sensitive Populations Contact Info Community Other Observations

Sensitive Populations

<input type="checkbox"/> Childbearing Women	<input type="checkbox"/> Elderly
<input type="checkbox"/> Pregnant Women	<input type="checkbox"/> Tobacco User
<input type="checkbox"/> Fetus	<input type="checkbox"/> Low Nutritional
<input type="checkbox"/> Infants	<input type="checkbox"/> Compromised Organ Systems
<input type="checkbox"/> Children	<input type="checkbox"/> Altered Metabolic Function
<input type="checkbox"/> Men	<input type="checkbox"/> On Medication
<input type="checkbox"/> Women	<input type="checkbox"/> Ethanol User
	<input type="checkbox"/> Chemical Sensitivity

# Site Visit sub-pages: Contact Info

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close

Save

Scenario Name

ID:

Info

Type

Data

Involvement

Future Use

Proximity

Chems

Concerns

Hazards

Exposures

Attach

Log

Site Visit

☒ Enter Site Visit Data

Site Visit Information

Status

Physical Hazard/ Water

Distances

Sensitive Populations

Contact Info

Community

Other Observations

EPA Brownfield Contact

Site Owner

State Health

City, Local Official

Government Entities

Private Citizens

# Site Visit sub-pages: Community

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close

Save

Scenario Name

ID:

Info

Type

Data

Involvement

Future Use

Proximity

Chems

Concerns

Hazards

Exposures

Attach

Log

Site Visit

☒ Enter Site Visit Data

Site Visit Information

Status

Physical Hazard/ Water

Distances

Sensitive Populations

Contact Info

Community

Other Observations

Approx Number of People Accessing Site

Frequency of Site Access

Community Health Concerns

Data Gaps



# Site Visit sub-pages: Other Observations

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close

Save

Scenario Name

ID:

Info

Type

Data

Involvement

Future Use

Proximity

Chems

Concerns

Hazards

Exposures

Attach

Log

Site Visit

☒ Enter Site Visit Data

Site Visit Information

Status

Physical Hazard/ Water

Distances

Sensitive Populations

Contact Info

Community

Other Observations

OtherObservations:

Click on Save, then enter a scenario name.

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name ID:

Info Type Data Involvement Future Use

☒ Enter Site Visit Data

Site Visit Information

Status Physical Hazard/ Water Distance

OtherObservations:

Enter a scenario name OK Cancel

Parcel 11c NorthVile MA

Importing analytical data. Click on the “Data” page, then click on “Add Data To Scenario.”

Evaluation Draft Brownfields/Land Re-use Site Tool - Data Entry Form

Close Save Scenario Name Parcel 11c Northville MA ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Data From Various Media

- ☐ Air
- ☐ Biota
- ☐ Soil
- ☐ Well Data
- ☐ Vapor Intrusion (soil gas)
- ☐ Food data
- ☐ Sediment data
- ☐ Product Container

Reports Available

- ☐ City Historical Reports
- ☐ Emergency Response
- ☐ Phase One Environmental Site Assessment
- ☐ Phase Two (sampling data) Environmental Site Assessment
- ☐ Removal Action Memo
- ☐ Pollution Report (POLREP)

Data Available (other):

Add Data To Scenario

Click this to import data from an Excel file.

- ☐ Contains Linked Soil Data
- ☐ Contains Linked Water Data
- ☐ Contains Linked Fish Data

Select body weight for the dose calculations that will be conducted on the imported data.

**Evaluation Draft Brownfields/Land-Reuse Site Tool**

Import and Process Data    Cancel

Start Here

**Select Body Weight:**

- Adolescents Ages 12-17 50 kg
- Adults Ages 18-70 70 kg
- Children Ages 1-11 30 kg
- Infants Under Age 1 10 kg

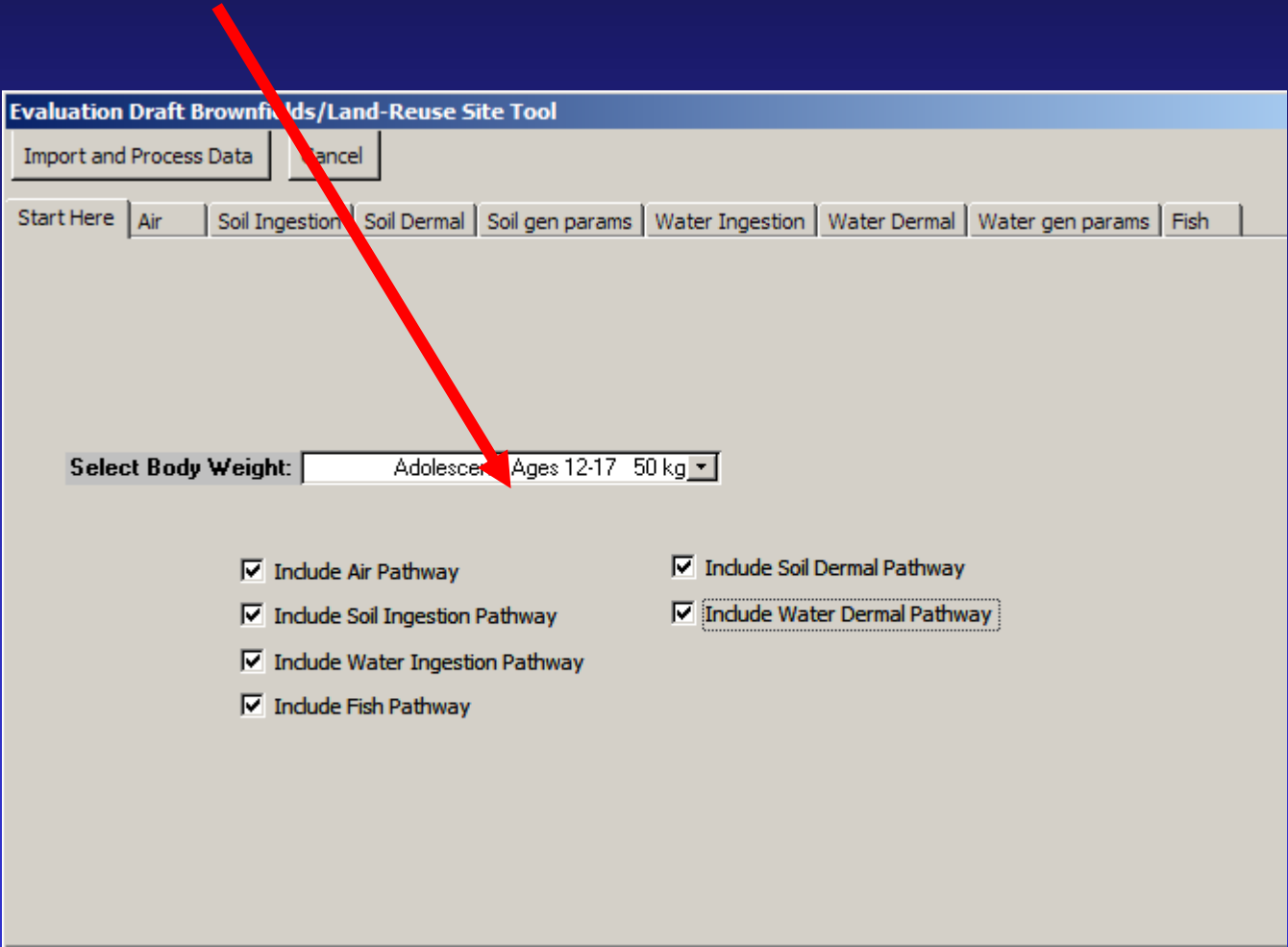
☐ Include Soil Dermal Pathway

☐ Include Soil Ingestion Pathway    ☐ Include Water Dermal Pathway

☐ Include Water Ingestion Pathway

☐ Include Fish Pathway

Then select the pathways to analyze. The database will check for each pathway in the datafile.



**Evaluation Draft Brownfields/Land-Reuse Site Tool**

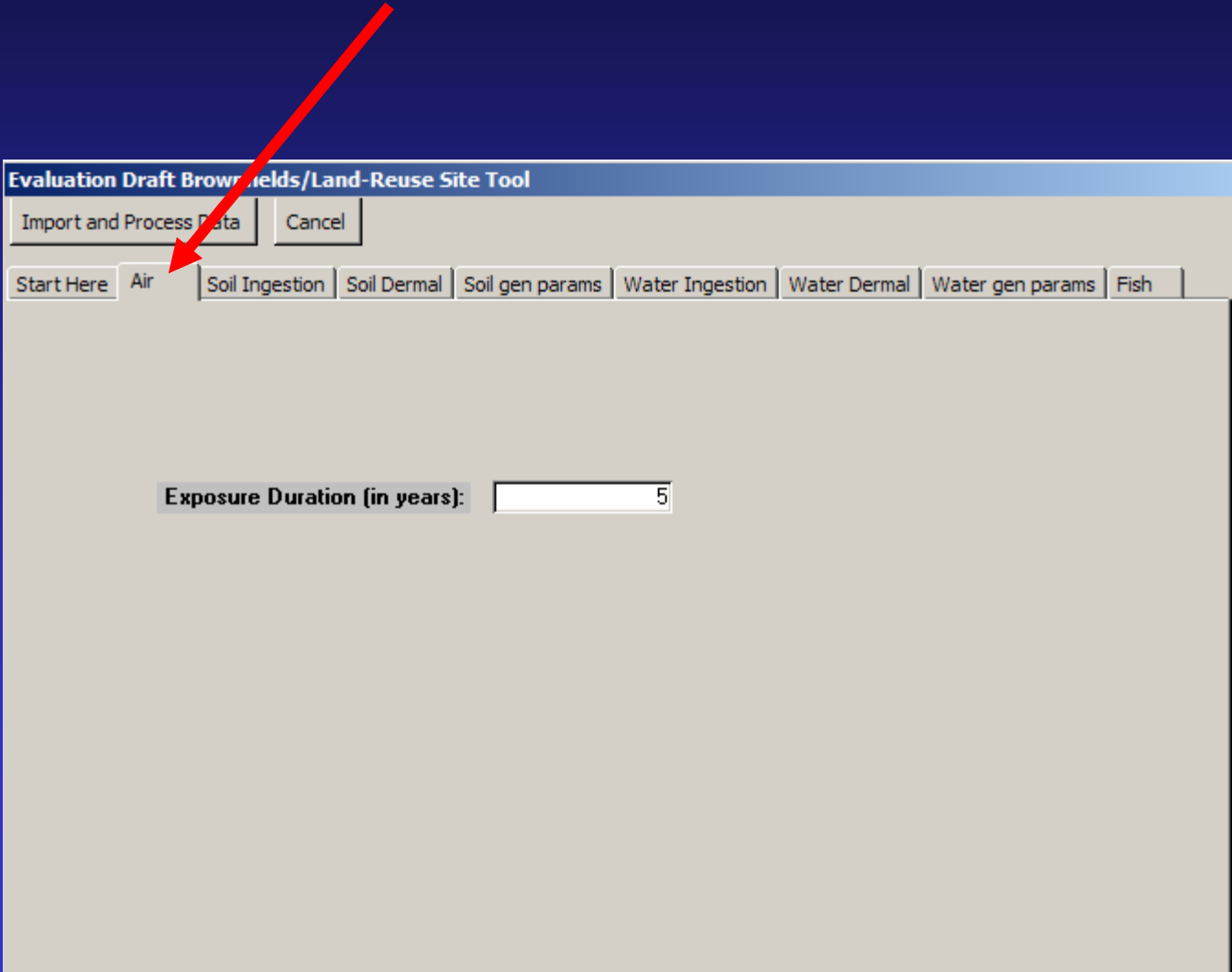
Import and Process Data   Cancel

Start Here   Air   Soil Ingestion   Soil Dermal   Soil gen params   Water Ingestion   Water Dermal   Water gen params   Fish

Select Body Weight: Adolescent Ages 12-17 50 kg

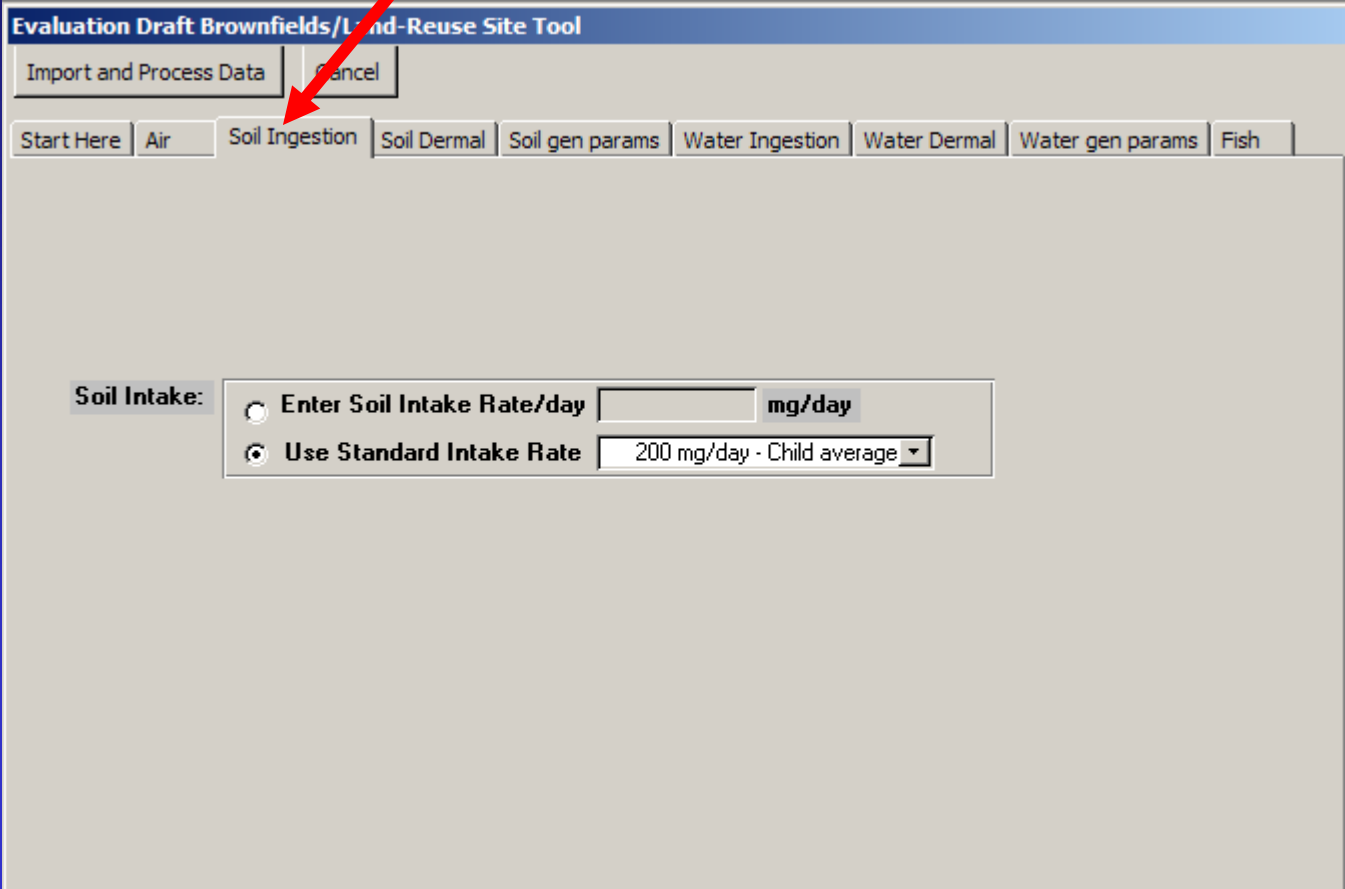
- ☒ Include Air Pathway
- ☒ Include Soil Ingestion Pathway
- ☒ Include Water Ingestion Pathway
- ☒ Include Fish Pathway
- ☒ Include Soil Dermal Pathway
- ☒ Include Water Dermal Pathway

Enter the pathway-specific parameters.



The screenshot shows a software window titled "Evaluation Draft Brownfields/Land-Reuse Site Tool". At the top, there are two buttons: "Import and Process Data" and "Cancel". Below these is a horizontal bar with several tabs: "Start Here", "Air", "Soil Ingestion", "Soil Dermal", "Soil gen params", "Water Ingestion", "Water Dermal", "Water gen params", and "Fish". A red arrow points from the text "Enter the pathway-specific parameters." to the "Air" tab. Below the tabs, the "Exposure Duration (in years):" is displayed next to a text input field containing the number "5".

Enter the pathway-specific parameters.



**Evaluation Draft Brownfields/Land Re-use Site Tool**

Import and Process Data   Cancel

Start Here   Air   **Soil Ingestion**   Soil Dermal   Soil gen params   Water Ingestion   Water Dermal   Water gen params   Fish

**Soil Intake:**

☐ Enter Soil Intake Rate/day  mg/day

☒ Use Standard Intake Rate

Enter the pathway-specific parameters. (Select areas exposed to contaminants).

**Evaluation Draft Brownfields/Land-Reuse Site Tool**

Import and Process Data Cancel

Start Here Air Soil Ingestion **Soil Dermal** Soil gen params Water Ingestion Water Dermal Water gen params Fish

A = Total Soil Adhered (mg) = Exposed Skin Area x Soil Adherence Conc:

☐ Head ☒ Torso ☒ Arms ☒ Hands ☒ Legs ☒ Feet

A = Exposed Skin Area: 1.38E+04 x Soil Adherence Concentration 0.2

A = 2.76E+03

Total Surface Area (SA) (cm2): 15235

Head (% of total SA)	9.30%
Torso (% of total SA)	32.70%
Arms (% of total SA)	12.43%
Hands (% of total SA)	5.30%
Legs (% of total SA)	32.53%
Feet (% of total SA)	7.66%



Enter the pathway-specific parameters.

The screenshot shows the 'Evaluation Draft Brownfields/Land-Reuse Site Tool' window. At the top, there are two buttons: 'Import and Process Data' and 'Cancel'. Below these is a row of tabs: 'Start Here', 'Air', 'Soil Ingestion', 'Soil Dermal', 'Soil gen params', 'Water Ingestion', 'Water Dermal', 'Water gen params', and 'Fish'. A red arrow points to the 'Soil gen params' tab. The main area of the window contains three input fields: 'BF = Bioavailability Factor:' with a text box containing '1', 'AF = Absorption Factor:' with a text box containing '0.1', and 'Soil Exposure Time:' with a radio button selected, a spinner box containing '45', the text 'days/year', another spinner box containing '5', and the text 'years'.

**Evaluation Draft Brownfields/Land-Reuse Site Tool**

Import and Process Data Cancel

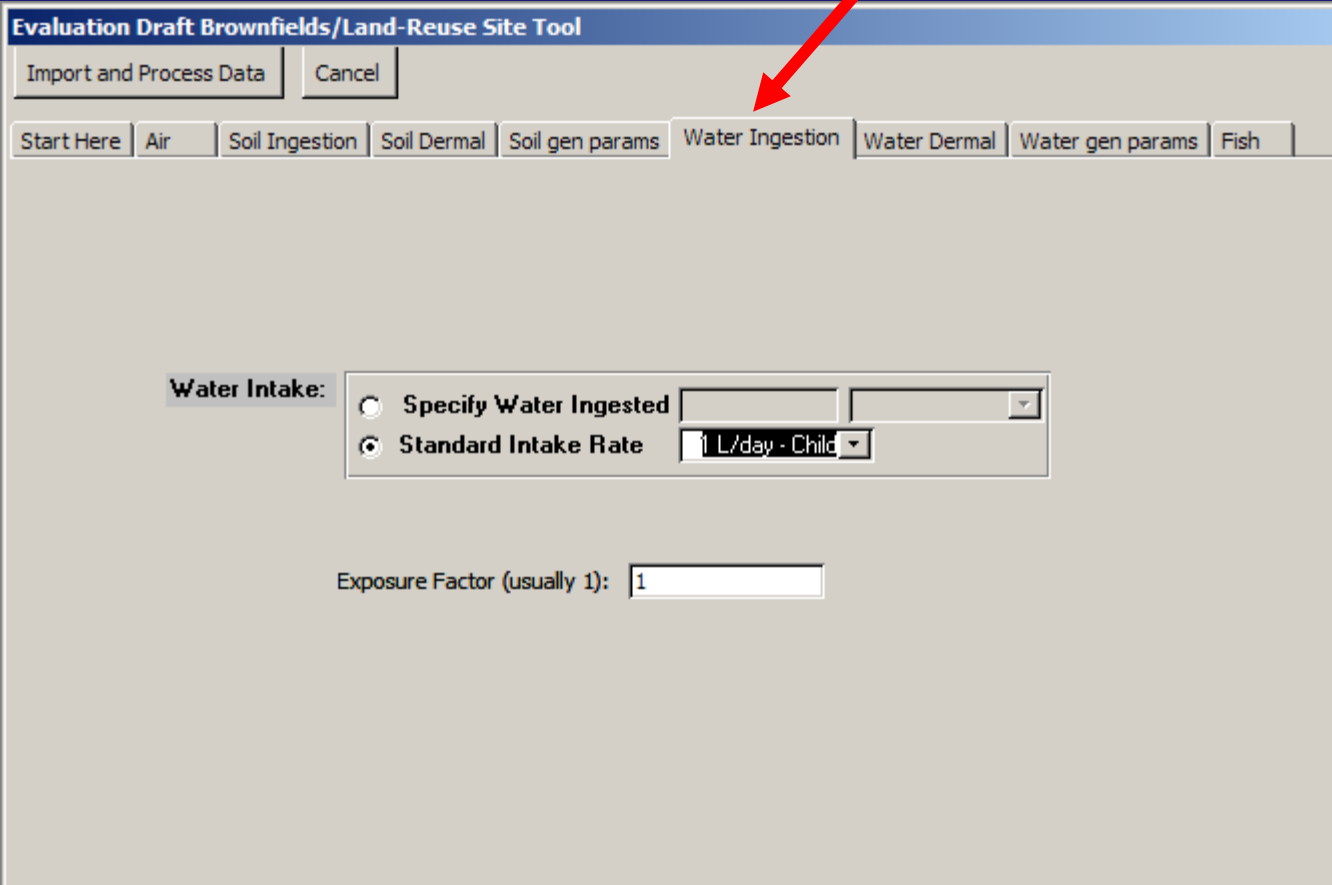
Start Here Air Soil Ingestion Soil Dermal **Soil gen params** Water Ingestion Water Dermal Water gen params Fish

BF = Bioavailability Factor: 1

AF = Absorption Factor: 0.1

Soil Exposure Time: ☒ 45 days/year 5 years

Enter the pathway-specific parameters.



The screenshot shows the 'Evaluation Draft Brownfields/Land-Reuse Site Tool' window. At the top, there are buttons for 'Import and Process Data' and 'Cancel'. Below these is a row of tabs: 'Start Here', 'Air', 'Soil Ingestion', 'Soil Dermal', 'Soil gen params', 'Water Ingestion', 'Water Dermal', 'Water gen params', and 'Fish'. A red arrow points to the 'Water Ingestion' tab. The 'Water Intake' section contains two radio buttons: 'Specify Water Ingested' (unselected) and 'Standard Intake Rate' (selected). The 'Standard Intake Rate' is set to '1 L/day - Child'. Below this, the 'Exposure Factor (usually 1):' is set to '1'.

**Evaluation Draft Brownfields/Land-Reuse Site Tool**

Import and Process Data Cancel

Start Here Air Soil Ingestion Soil Dermal Soil gen params **Water Ingestion** Water Dermal Water gen params Fish

**Water Intake:**

☐ Specify Water Ingested

☒ Standard Intake Rate

Exposure Factor (usually 1):

Enter the pathway-specific parameters.

Evaluation Draft Brownfields/Land-Reuse Site Tool

Import and Process Data

Cancel

Start Here

Air

Soil Ingestion

Soil Dermal

Soil gen params

Water Ingestion

Water Dermal

Water gen params

Fish

SA = Exposed Body Surface Area to Water (cm2):

☐ Head

☒ Torso

☒ Arms

☒ Hands

☒ Legs

☒ Feet

SA = Total Skin Area Exposed to Water: 1.38E+04

Total Surface Area (SA) (cm2): 15235

Head (% of total SA) 9.30%

Torso (% of total SA) 32.70%

Arms (% of total SA) 12.43%

Hands (% of total SA) 5.30%

Legs (% of total SA) 32.53%

Feet (% of total SA) 7.66%

Enter the pathway-specific parameters.

Evaluation Draft Brownfields/Land-Reuse Site Tool

Import and Process Data

Cancel

Start Here

Air

Soil Ingestion

Soil Dermal

Soil gen params

Water Ingestion

Water Dermal

Water gen params

Fish

ET = Water Exposure Time

☒

1

mins/day

12

hours/day

45

days/year

10

years

ATSDR

Enter the pathway-specific parameters.

Evaluation Draft Brownfields/Land-Reuse Site Tool

Import and Process Data

Cancel

Start Here

Air

Soil Ingestion

Soil Dermal

Soil gen params

Water Ingestion

Water Dermal

Water gen params

Fish

Intake Rate of Contaminated Fish:

for

1

days/year over

1

years

for

0

meals/week and

0

weeks/year for

1

years

25,000 mg/day - Recreational fishers (freshwater fish), 95th percentile n.

5

years

AF = Absorption Factor:

0.1

ATSDR

Click on “Import and Process Data.” The data will be imported from a previously formatted file. The data must be formatted using the companion tool “Data Conversion Tool” (see next 12 slides).

**Evaluation Draft Brownfields/Land-Reuse Site Tool**

Import and Process Data Cancel

Start Here Air Soil Ingestion Soil Dermal Soil gen params Water Ingestion Water Dermal Water gen params Fish

**Intake Rate of Contaminated Fish:**

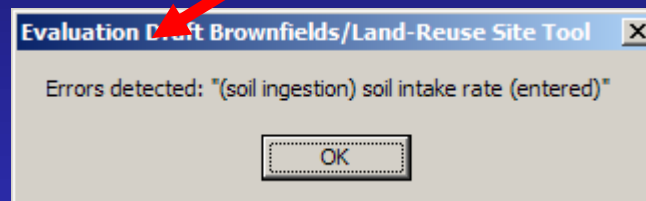
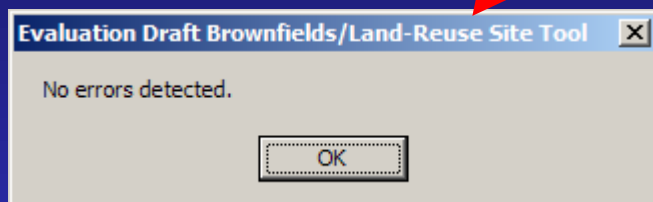
☐ Calculate Rate Based on Amount of Fish Per Day Consumed Over Time  
[ ] [ ] for [ 1 ] days/year over [ 1 ] years

☐ Calculate Rate Based on Fish Meals Per Week Consumed Over Time  
[ ] [ ] for [ 0 ] meals/week and [ 0 ] weeks/year for [ 1 ] years

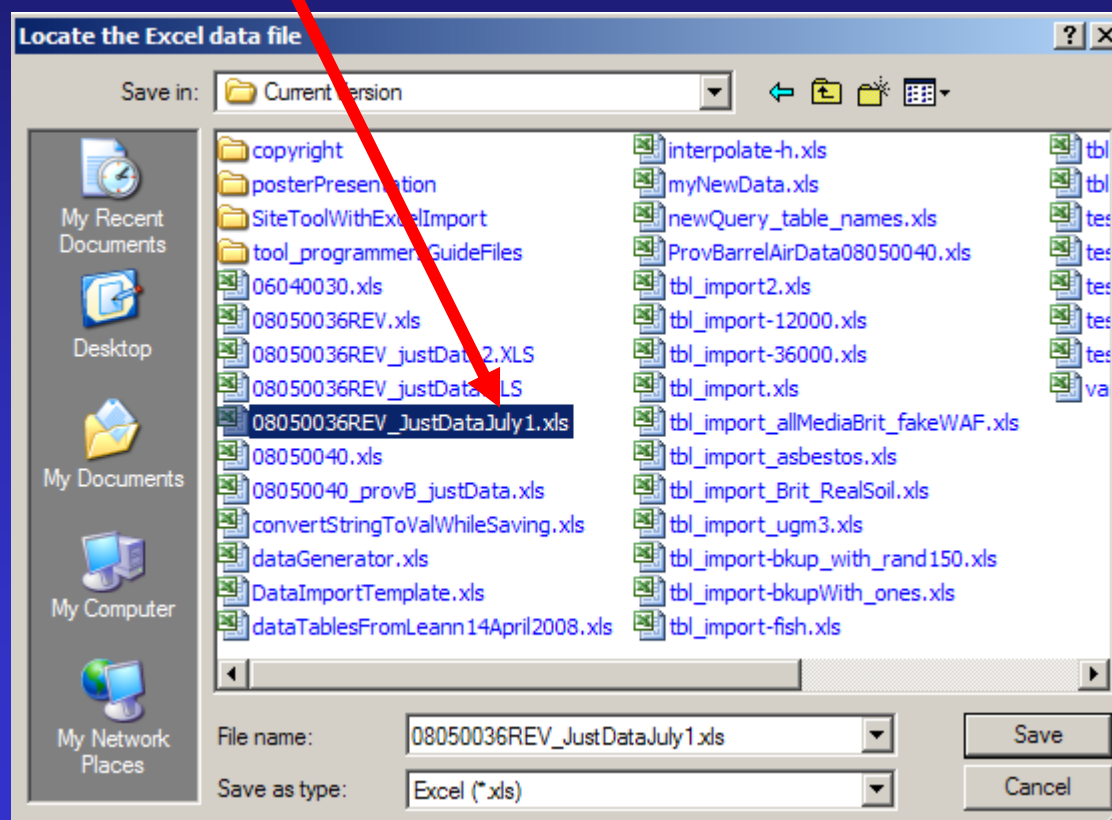
☒ Use Standard Intake Rate:  
25,000 mg/day - Recreational fishers (freshwater fish), 95th percentile n. [ 5 ] years

AF = Absorption Factor: [ 0.1 ]

If there are no errors in the exposure parameters the following dialog will be displayed, otherwise the error(s) will be identified.

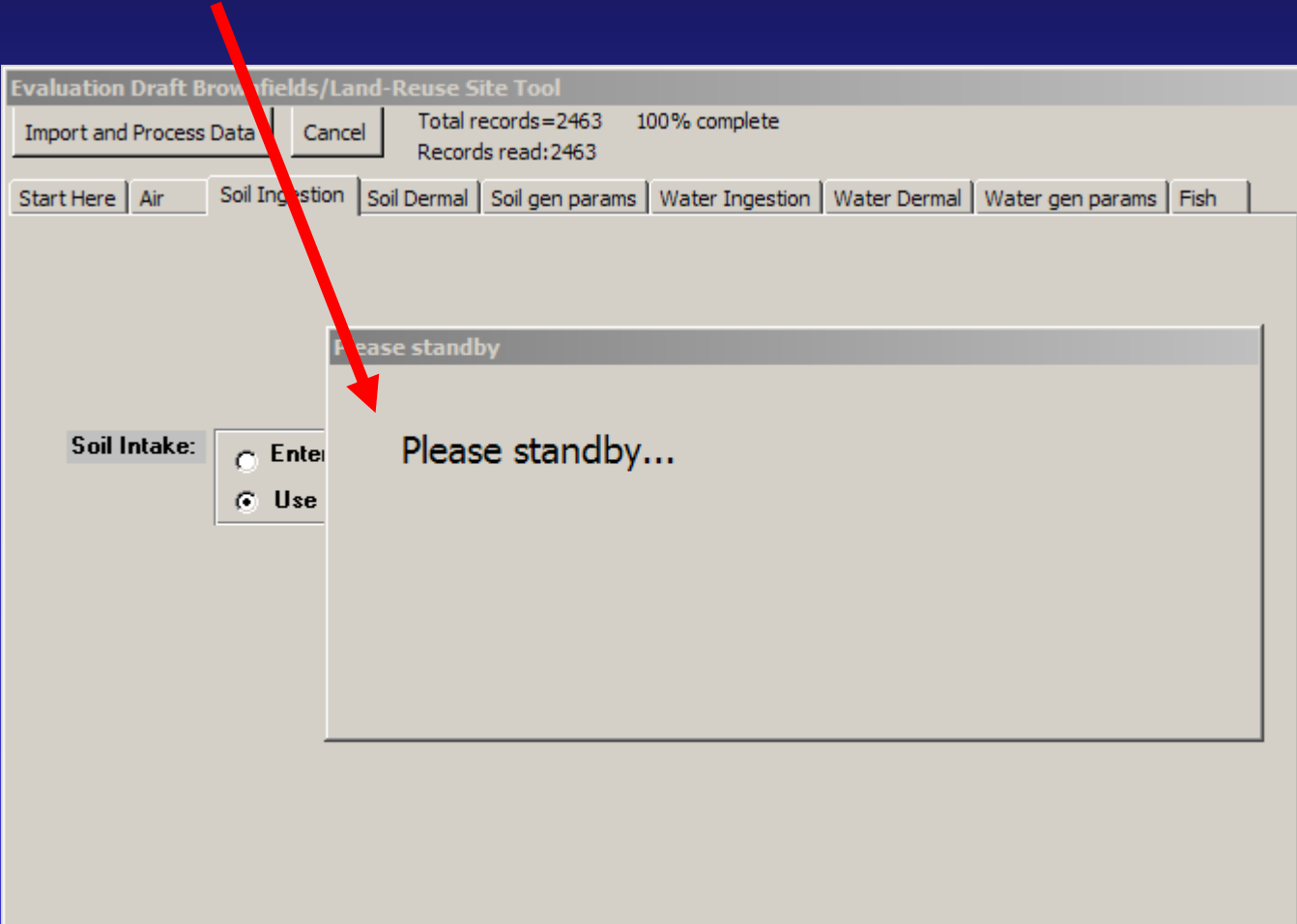


**Locate the spreadsheet then click save. This system is only able to import xls files.**





The number of records will be displayed along with the percentage of all records read.



If there are any errors in the data (missing heading file, incorrect media, etc) they will be displayed. Otherwise, the dialog listed below will be displayed.



Save the data, then click on Close.

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Entry Form

Close Save Scenario Name Parcel 11c Northville MA ID:

Info Type Data Involvement Future Use Proximity Chems Concerns Hazards Exposures Attach Log Site Visit

Data From Various Media

- ☐ Air
- ☐ Biota
- ☐ Soil
- ☐ Well Data
- ☐ Vapor Intrusion (soil gas)
- ☐ Food data
- ☐ Sediment data
- ☐ Product Container

Reports Available

- ☐ City Historical Reports
- ☐ Emergency Response
- ☐ Phase One Environmental Site Assessment
- ☐ Phase Two (sampling data) Environmental Site Assessment
- ☐ Removal Action Memo
- ☐ Pollution Report (POLREP)

Add Data To Scenario

Click this to import data from an Excel file.

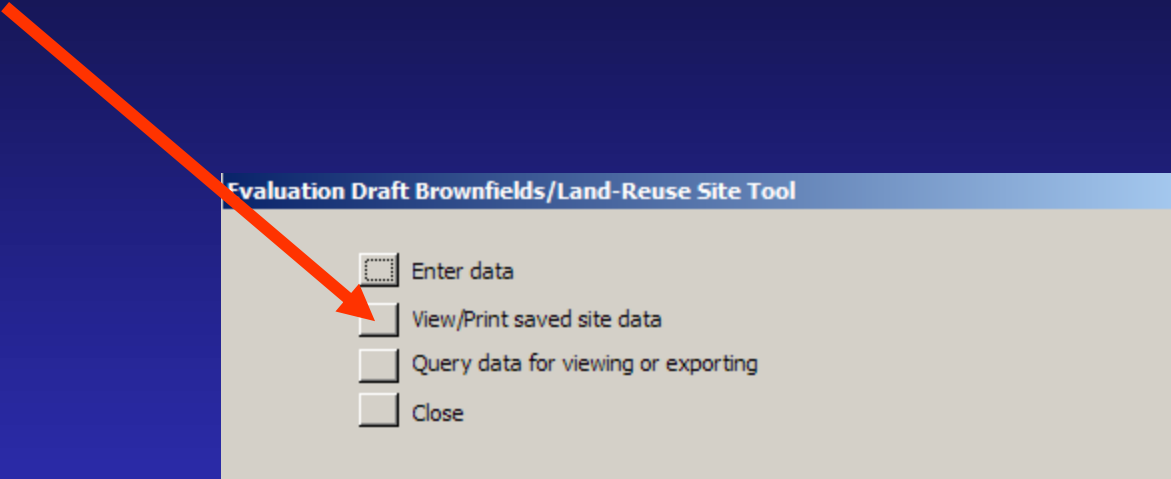
- ☐ Contains Linked Soil Data
- ☐ Contains Linked Water Data
- ☐ Contains Linked Fish Data

Data Available (other):

To view and print the processed data, click on the top button.



Click on View/Print site data



The most recent site will be the last record. Use the query function to search for a specific record.

A checkboxes indicates there are site visit data and linked imported analytical data for viewing

The data from these (287) records can be exported to a CSV file. Use the Query function to select specific records.

The record displayed can be edited or deleted.

View and print the site data and site visit data (if available).

The screenshot shows the 'Evaluation Draft Brownfields/Land-Reuse Site Tool' window. It contains several input fields: 'Site Name' (Parcel 11c), 'Address' (empty), 'City' (Northville), 'State' (MASSACHUSETTS), and 'Scenario Name' (Parcel 11c Northville MA). Below these are checkboxes for data types: 'Contains Linked Site Visit Data' (checked), 'Contains Linked Air Data' (unchecked), 'Contains Linked Soil Data' (checked), 'Contains Linked Water Data' (unchecked), and 'Contains Linked Fish Data' (unchecked). A button 'Export Record(s) as a comma delimited file' is present. Below this are 'Edit Record' and 'Delete Record' buttons. The 'Site Data Reports' section has 'Site Data' and 'Site Visit' buttons. The 'Environmental Sampling Reports' section has 'Air Data', 'Soil Data', 'Fish Data', and 'Water Data' buttons. At the bottom, there are checkboxes for 'Maximum Values', 'Average Values', 'Geometric Mean Values', '95UCL (untransformed data with normality test)', and '95UCL (Log transformed data with normality test)'. A 'Close' button is at the bottom right. The status bar at the very bottom shows 'Record: 287 of 287'. Red arrows point from the text blocks to the 'Contains Linked Site Visit Data' checkbox, the 'Export Record(s) as a comma delimited file' button, the 'Edit Record' button, the 'Delete Record' button, the 'Site Data' and 'Site Visit' buttons, and the status bar.

The most recent site will be the last record. Use the query function to search for a specific record.

Evaluation Draft Brownfields/Land-Reuse Site Tool

Site Name

Parcel 11c

Address

City

Northville

State

MASSACHUSE

Scenario Name

Parcel 11c NorthVille MA

☒ Contains Linked Site Visit Data

☐ Contains Linked Air Data

☒ Contains Linked Soil Data

☐ Contains Linked Water Data

☐ Contains Linked Fish Data

Export Record(s) as a comma delimited file

Edit Record

Delete Record

Site Data Reports

Site Data

Site Visit

Environmental Sampling Reports

Air Data

Soil Data

Fish Data

Water Data

☐ Maximum Values

☐ 95UCL (untransformed data with normality test)

☐ Average Values

☐ 95UCL (Log transformed data with normality test)

☐ Geometric Mean Values

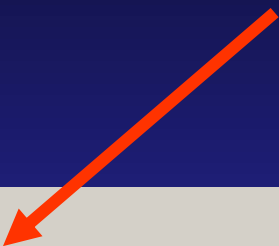
Close

Record: 287 of 287

View and print the analytical dose calculations report for available media

View and print various reports. The dose calculation in each report is based on the statistical parameter in the report name (e.g., view the dose calculation based on the Maximum).

## Reports – Maximum Values



☐ Maximum Values

☐ Average Values

☐ Geometric Mean Values

☐ 95UCL  
(untransformed data  
with normality test)

☐ 95UCL (Log  
transformed data  
with normality test)



# Reports – Maximum values used in the calculations

Soil-Results based on the maximum values.													
bw: 5.00E+01 IR: 2.00E+02 A: 0.00E+00 BF: 1.00E+00 SA: 0.00E+00													
AF: 1.00E-01 EF: 1.23E-01 ED_yrs: 5.00E+00 limbs:													
Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	MXConc	Ing Dose	DermalDose	IngestCa	DermCa
Actual data are above a CV value													
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	11	0	11	1.9E+01	7.6E-05		8.1E-06	
acute MRL: 5.E-03													
int MRL: n/a													
chr MRL: 3.E-04													
min=2.7E+0, Q1=4.5E+0, median=6.5E+0, arithmetic mean=7.8E+0, Q3=1.0E+1, max=1.9E+1, range=1.6E+1													
MN.....Q1.....Q2.....Q3.....MX													
CV.....													

Reports- Expanded View

*Soil-Results based on the 95% UCL of the Log transformed values.*

<i>Chemical</i>	<i>CASN</i>	<i>Units</i>	<i>CV name</i>	<i>CV value</i>
<u><i>Actual data are above a CV value</i></u>				
Arsenic	007440-38-2	ppm	Soil CREG	5E-01

Reports- Expanded View

<i>bw:</i>	5.00E+01	<i>IR:</i>	2.00E+02	<i>A:</i>	0.00E+00	<i>BF:</i>	1.00E+00	<i>SA:</i>	0.00E+00
<i>AF:</i>	1.00E-01	<i>EF:</i>	1.23E-01	<i>ED_yrs:</i>	5.00E+00	<i>limbs:</i>			
<i>&gt;CV</i>	<i>N</i>	<i>#ND</i>	<i># non ND&gt;CV</i>	<i>UCL_log</i>	<i>Ing Dose</i>	<i>DermalDose</i>	<i>IngestCa</i>	<i>DermCa</i>	
Y	11	0	11	1.2E+01	4.6E-05		5.0E-06		

Reports- Expanded View

acute MRL: 5.E-03  
int MRL: n/a  
chr MRL: 3.E-04

Reports- Expanded View

min=2.7E+0, Q1=4.5E+0, median=6.5E+0, arithmetic mean=7.8E+0, Q3=1.0E+1, max=1.9E+1, range=1.6E+1  
MN.....Q1.....Q2.....Q3.....MX  
CV.....

W-Stat=9.7e-1 p-value=8.4e-1 These data are Log- normally distributed.

## Reports – Average Values

☐ Maximum Values

☐ Average Values

☐ Geometric Mean Values

☐ 95UCL  
(untransformed data  
with normality test)

☐ 95UCL (Log  
transformed data  
with normality test)

Reports – Average (arithmetic mean) values used in the calculations

Soil-Results based on the arithmetic mean.

<i>Soil-Results based on the arithmetic mean.</i>					bw: 5.00E+01		IR: 2.00E+02		A: 0.00E+00		BF: 1.00E+00		SA: 0.00E+00	
					AF: 1.00E-01		EF: 1.23E-01		ED_yrs: 5.00E+00		limbs:			
Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	AvgConc	Ing Dose	DermalDose	IngestCa	DermCa	
<u>Actual data are above a CV value</u>														
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	11	0	11	7.8E+00	3.1E-05		3.3E-06		
									acute MRL: 5.E-03					
									int MRL: n/a					
									chr MRL: 3.E-04					
min=2.7E+0, Q1=4.5E+0, median=6.5E+0, arithmetic mean=7.8E+0, Q3=1.0E+1, max=1.9E+1, range=1.6E+1														
MN.....Q1.....Q2.....Q3.....MX														
CV.....														

## Reports – Geometric Mean Values

☐ Maximum Values

☐ Average Values

☐ Geometric Mean Values

☐ 95UCL  
(untransformed data  
with normality test)


☐ 95UCL (Log  
transformed data  
with normality test)



Reports – Geometric Mean values used in the calculations

Soil-Results based on the geometric mean.										bw: 5.00E+01	IR: 2.00E+02	A: 0.00E+00	BF: 1.00E+00	SA: 0.00E+00
										AF: 1.00E-01	EF: 1.23E-01	ED_yrs: 5.00E+00	limbs:	
Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	GMConc	Ing Dose	DermalDose	IngestCa	DermCa	
Actual data are above a CV value														
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	11	0	11	6.8E+00	2.7E-05		2.9E-06		
acute MRL: 5.E-03														
int MRL: n/a														
chr MRL: 3.E-04														
min=2.7E+0, Q1=4.5E+0, median=6.5E+0, arithmetic mean=7.8E+0, Q3=1.0E+1, max=1.9E+1, range=1.6E+1														
MN.....Q1.....Q2.....Q3.....MX														
CV.....														

## Reports – 95 UCL (untransformed data)



☐ Maximum Values

☐ Average Values

☐ Geometric Mean Values

☐ 95UCL  
(untransformed data  
with normality test)

☐ 95UCL (Log  
transformed data  
with normality test)

Reports –95 UCL (untransformed data) values used in the calculations

<i>Soil-Results based on the 95% UCL of the arithmetic mean values.</i>										<i>bw: 5.00E+01   IR: 2.00E+02   A: 0.00E+00   BF: 1.00E+00   SA: 0.00E+00</i>			
										<i>AF: 1.00E-01   EF: 1.23E-01   ED_yrs: 5.00E+00   limbs:</i>			
<i>Chemical</i>	<i>CASN</i>	<i>Units</i>	<i>CV name</i>	<i>CV value</i>	<i>&gt;CV</i>	<i>N</i>	<i>#ND</i>	<i># non ND&gt;CV</i>	<i>UCL</i>	<i>Ing Dose</i>	<i>DermalDose</i>	<i>IngestCa</i>	<i>DermCa</i>
<i>Actual data are above a CV value</i>													
Benzo(a)anthracene	000056-55-3	ppm	PRG ResSoil	1E-01	Y	12	0	12	2.0E+01	8.1E-05			
acute MRL: n/a													
int MRL: n/a													
chr MRL: n/a													
min=1.2E+0, Q1=2.1E+0, median=3.E+0, arithmetic mean=9.E+0, Q3=7.E+0, max=6.5E+1, range=6.4E+1													
MNQ1Q2..Q3.....MX													
CV.....													
W-Stat=4.5e-1   p-value=8.2e-6 * p-value is < 0.05, These data are not normally distributed.													

## Reports – 95 UCL (Log transformed data)

☐ Maximum Values

☐ Average Values

☐ Geometric Mean Values

☐ 95UCL  
(untransformed data  
with normality test)

☐ 95UCL (Log  
transformed data  
with normality test)

Reports –95 UCL (Log transformed data) values used in the calculations

Soil-Results based on the 95% UCL of the Log transformed values.

bw: 5.00E+01 IR: 2.00E+02 A: 0.00E+00 BF: 1.00E+00 SA: 0.00E+00  
AF: 1.00E-01 EF: 1.23E-01 ED\_yrs: 5.00E+00 limbs:

Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	UCL_log	Ing Dose	DermalDose	IngestCa	DermCa
Actual data are above a CV value													
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	11	0	11	1.2E+01	4.6E-05		5.0E-06	
acute MRL: 5.E-03													
int MRL: n/a													
chr MRL: 3.E-04													
min=2.7E+0, Q1=4.5E+0, median=6.5E+0, arithmetic mean=7.8E+0, Q3=1.0E+1, max=1.9E+1, range=1.6E+1													
MN.....Q1.....Q2.....Q3.....MX													
CV.....													
W-Stat=9.7e-1 p-value=8.4e-1 These data are Log- normally distributed.													

## Dose report - interpretation Key 1 of 5

**“CV”= comparison value**

**“>CV”= Number of data points above the comparison value**

**“N”= Number of data points**

**“#ND”= Number of data points that are non detect**

**“#non ND>CV”= Number of data points that contained a value that was above the CV**

**“MXConc”= Maximum concentration**

**“Ing Dose”= Ingestion dose based on the Maximum Concentration**

**“DermalDose”= Dermal dose based on the Maximum Concentration**

**“IngestCa”= Ingestion cancer risk based on exposure parameters using the Maximum Concentration**

**“DermCa”= Dermal cancer risk based on exposure parameters using the Maximum Concentration**

Soil-Results based on the maximum values.													
bw: 5.00E+01   IR: 2.00E+02   A: 2.76E+03   BF: 1.00E+00   SA: 1.38E+04 AF: 1.00E-01   EF: 1.23E-01   ED_yrs: 5.00E+00   limbs: torso,arms,hands,legs,feet.													
Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	MXConc	Ing Dose	DermalDose	IngestCa	DermCa
<u>Actual data are above a CV value.</u>													
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	16	0	16	3.1E+01	1.2E-04	2.1E-05	1.3E-05	2.3E-06
									acute MRL: 5.E-03 int MRL: n/a chr MRL: 3.E-04				
									min=3.7E+0, Q1=4.6E+0, median=5.1E+0, arithmetic mean=7.5E+0, Q3=8.7E+0, max=3.1E+1, range=2.7E+1 MNQ1Q2.....Q3.....MX CV.....				
Benzo(a)anthracene	000056-55-3	ppm	PRG ResSoil	1E-01	Y	16	14	2	8.3E-01	3.3E-06	5.7E-07		
									acute MRL: n/a int MRL: n/a chr MRL: n/a				

# Dose report - interpretation Key 2 of 5

- “bw”= Body weight (kg)
- “AF”= Absorption fraction (unitless)
- “IR”= Ingestion rate (mg/day)
- “EF”=Exposure factor (unitless)
- “ED\_yrs”=Exposure duration (yrs)
- “BF”=Bioavailability factor (unitless)
- “SA”=Surface Area (cm^2)
- “A”= Total soil adhered (exposed skin \* soil adherence concentration) (mg)
- “limbs”=Areas of the body that were selected for the exposure scenario

Soil-Results based on the maximum values.										bw: 5.00E+01	IR: 2.00E+02	A: 2.76E+03	BF: 1.00E+00	SA: 1.38E+04
										AF: 1.00E-01	EF: 1.23E-01	ED_yrs: 5.00E+00	limbs: torso,arms,hands,legs,feet.	
Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND	>CV	MXConc	Ing Dose	DermalDose	IngestCa	DermCa
Actual data are above a CV value														
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	16	0	16		3.1E+01	1.2E-04	2.1E-05	1.3E-05	2.3E-06
										acute MRL: 5.E-03				
										int MRL: n/a				
										chr MRL: 3.E-04				
										min=3.7E+0, Q1=4.6E+0, median=5.1E+0, arithmetic mean=7.5E+0, Q3=8.7E+0, max=3.1E+1, range=2.7E+1				
										MNQ1Q2.....Q3.....MX				
										CV.....				
Benzo(a)anthracene	000056-55-3	ppm	PRG ResSoil	1E-01	Y	16	14	2		8.3E-01	3.3E-06	5.7E-07		
										acute MRL: n/a				
										int MRL: n/a				
										chr MRL: n/a				

# Dose report - interpretation Key 3 of 5

- “acute MRL”= Acute MRL
- “int MRL”= Intermediate MRL
- “chr MRL”= Chronic MRL
- “n/a”= not available
- “5E-01”= Scientific notation for 0.5
- “Y”=yes, used to indicate that at least one data point was above the CV
- “min”= Minimum value
- “Q1”= First quartile (25% of the data)
- “Q2”= Second quartile (50% of the data)
- “median”=Middle value, half of the data points are above this value, also known as the Q2
- “arithmetic mean”= average value of the raw (non-transformed) data
- “Q3”= Third quartile (75% of the data)
- “max”= Maximum value
- “range”=Maximum minus the minimum

The two lines below graphically depict the spread (distribution of the data relative to the comparison value (see next slide for an enlarged version).

*Soil-Results based on the maximum values.*

*Actual data are above a CV value.*

Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	MXConc	Ing Dose	DermalDose	IngestCa	DermCa
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	16	0	16	3.1E+01	1.2E-04	2.1E-05	1.3E-05	2.3E-06
min=3.7E+0, Q1=4.6E+0, median=5.1E+0, arithmetic mean=7.5E+0, Q3=8.7E+0, max=3.1E+1, range=2.7E+1													
MNQ1Q2.....Q3.....MX													
CV.....													



# Dose report - interpretation Key 4 of 5

There are 100 dots from the minimum to the maximum. Each dot represents the range/100. This is an arbitrary depiction of the data , and is used to provide a general visual picture of how the data are distributed.



min=3.7E+0, Q1=4.6E+0, median=5.1E+0, arithmetic mean=7.5E+0, Q3=8.7E+0, max=3.1E+1, range=2.7E+1  
MNQ1Q2.....Q3.....MX  
CV.....

# Dose report - interpretation Key 5 of 5

The 95% UCL of the Log transformed data and the 95% UCL of the **un** transformed reports contain an additional line of information.

- “WL”= shapiro-wilk W statistic for normality
- “p-value”= the probability that the data are normally (or log-normally) distributed. If this value is less than 0.05 than the data are considered to NOT be normally (or log-normally) distributed)

Soil-Results based on the 95% UCL of the arithmetic mean values.

bw: 5.00E+01IR: 2.00E+02A: 0.00E+00BF: 1.00E+00SA: 0.00E+00AF: 1.00E-01EF: 1.23E-01ED\_yrs: 5.00E+00limbs:

Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	UCL	Ing Dose	DermalDose	IngestCa	DermCa
Actual data are above a CV value													
Benzo(a)anthracene	000056-55-3	ppm	PRG ResSoil	1E-01	Y	12	0	12	2.0E+01	8.1E-05			
acute MRL: n/a													
int MRL: n/a													
chr MRL: n/a													
min=1.2E+0, Q1=2.1E+0, median=3.E+0, arithmetic mean=9.E+0, Q3=7.E+0, max=6.5E+1, range=6.4E+1													
MNQ1Q2..Q3.....MX													
CV.....													
W-Stat=4.5e-1 p-value=8.2e-6 * p-value is < 0.05, These data are not normally distributed.													

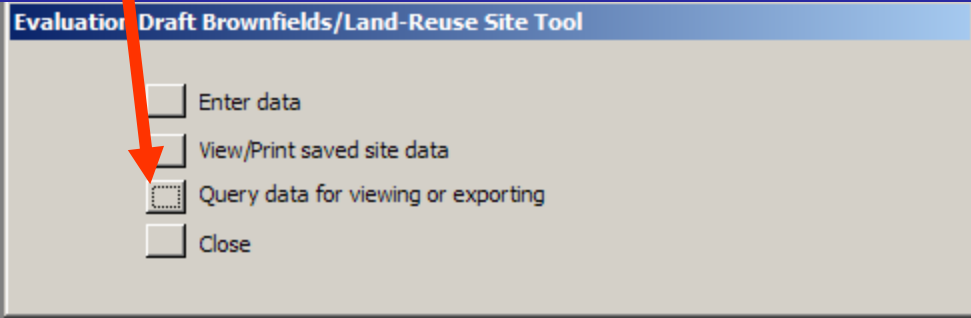
Soil-Results based on the 95% UCL of the Log transformed values.

bw: 5.00E+01IR: 2.00E+02A: 0.00E+00BF: 1.00E+00SA: 0.00E+00AF: 1.00E-01EF: 1.23E-01ED\_yrs: 5.00E+00limbs:

Chemical	CASN	Units	CV name	CV value	>CV	N	#ND	# non ND>CV	UCL_log	Ing Dose	DermalDose	IngestCa	DermCa
Actual data are above a CV value													
Arsenic	007440-38-2	ppm	Soil CREG	5E-01	Y	11	0	11	1.2E+01	4.6E-05		5.0E-06	
acute MRL: 5.E-03													
int MRL: n/a													
chr MRL: 3.E-04													
min=2.7E+0, Q1=4.5E+0, median=6.5E+0, arithmetic mean=8.E+0, Q3=1.0E+1, max=1.9E+1, range=1.6E+1													
MN..Q1..Q2.....Q3.....MX													
CV.....													
W-Stat=9.7e-1 p-value=8.4e-1 These data are Log- normally distributed.													

# Query function

On the main screen, click “enter, View, Query, or Print Site Data.” Then click on “Query data for viewing or exporting.”



# Query function

Select the criteria of the record(s) you are trying to locate then click “Run Query.”

Evaluation Draft Brownfields/Land-Reuse Site Tool - Data Query Form

Please select at least one criterion from the lists and check boxes on all tabs, then click "Run Query".

Run QueryCloseReset Query Fields

InfoTypeDataInvolvementFuture UseProximityChemsConcernsHazardsExposuresSite Visit

Site Name:

Site Address:

Site City:Northville

Site County:n/a

Site Latitude

Site Longitude (

Site Contact

Site Contact Affil

Site Contact Phone:

Site Contact email:

Institutional Controls (description):

Start Date:

End Date:

Stewardship:

Catalogue of Violations:

Catalogue of Spills:

Catalogue of Emergency Response(s):

Site State:MASSACHUSETT

Site Zip:

Knowledge of Property

State

County

City/Town

Tribal

Brownfield\_Status:

Owner:

Site Code:

Date Accepted:

Soil removal (tons):

Site Status:

Site Owner Name:

File Number:

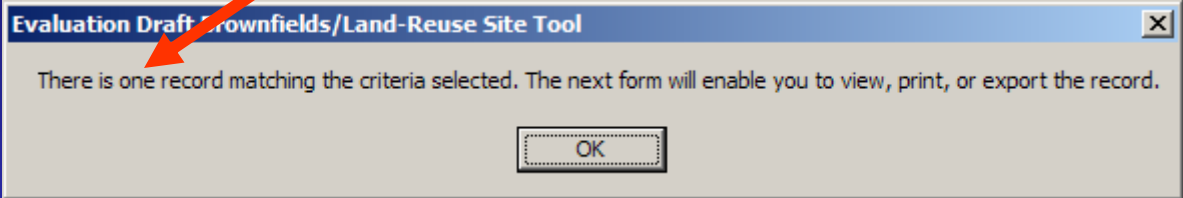
Institutional Controls (type):

GW Removed (gals):

Restricted land Use

# Query function

The number of record(s) matching the criteria are listed in the dialog box.



# Query function

The record(s) matching the criteria are listed in the form below. (note the queried data are filtered and represent a subset of the entire data.)

Evaluation Draft Brownfields/Land-Reuse Site Tool

Site Name

Parcel 11c

Address

City

Northville

State

MASSACHUSE

Scenario Name

Parcel 11c NorthVille MA

☒ Contains Linked Site Visit Data

☐ Contains Linked Air Data

☒ Contains Linked Soil Data

☐ Contains Linked Water Data

☐ Contains Linked Fish Data

Export Record(s) as a comma delimited file

Edit Record

Delete Record

Site Data Reports

Site Data

Site Visit

Environmental Sampling Reports

Air Data

Soil Data

Fish Data

Water Data

☐ Maximum Values

☐ Average Values

☐ Geometric Mean Values

☐ 95UCL (untransformed data with normality test)

☐ 95UCL (Log transformed data with normality test)

Close

Record: 1 of 1 (Filtered)

# Import Inventory Data Function

Existing site data (not analytical data) can be imported by clicking on “Import inventory data.”



# Import Inventory Data Function

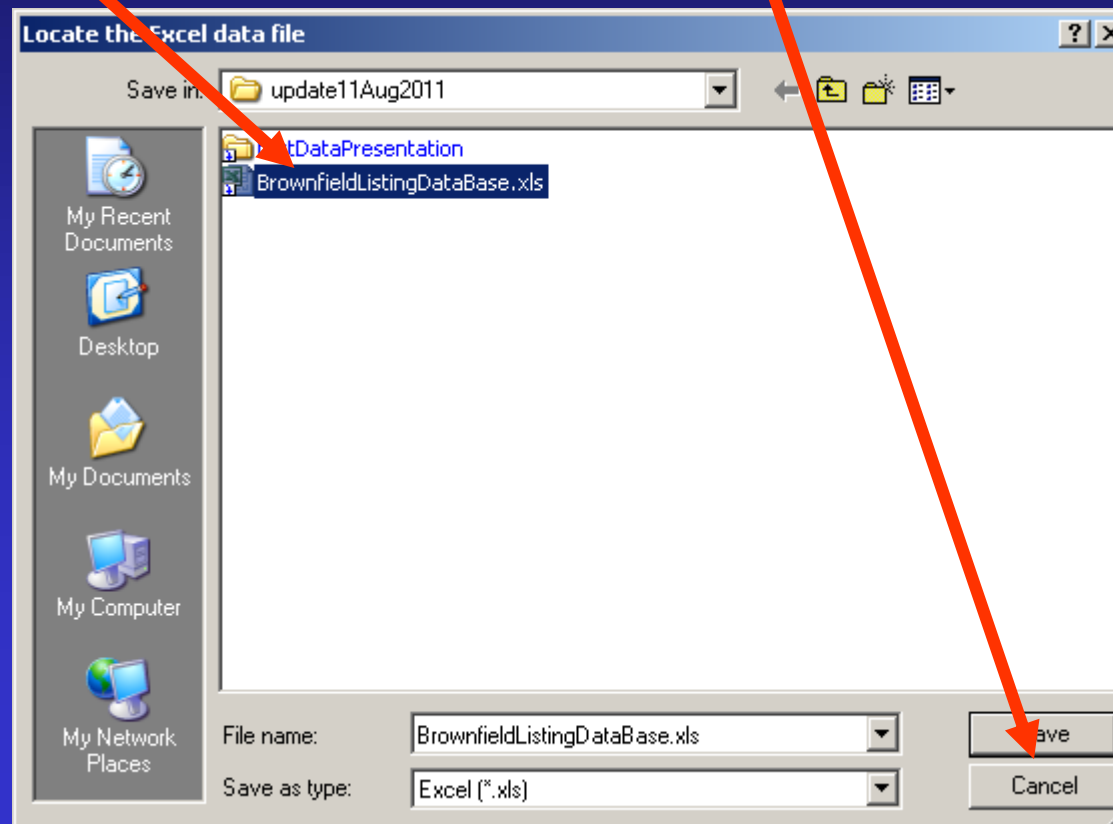
Click on “1) Import data.”

The screenshot shows a software window titled "Evaluation Craft Brownfields/Land-Reuse Site Tool - Data Importation Form". At the top, there are three buttons: "1) Import Data", "2) Save and Close", and "Cancel". A red arrow points to the "1) Import Data" button. Below the buttons is a tab labeled "Field Mapping". Under this tab, there is a section titled "Fields In Data File" with a dropdown menu. Below this, there is a button with a downward arrow icon and the text "Map to this field". To the right of this button are two empty rectangular input fields. At the bottom of the form, there is a section titled "Fields In tbl\_site\_data" with another dropdown menu.



# Import Inventory Data Function

Locate the data file containing Inventory Data, then click Save.



# Import Inventory Data Function

Match fields in the imported data to the fields in the tool.

**Brownfields/Land Re-use Site Tool - Data Importation Form**

1) Import Data    2) Save and Close    Cancel

Field Mapping

Fields In Data File

Site Name

↓ Map to this field

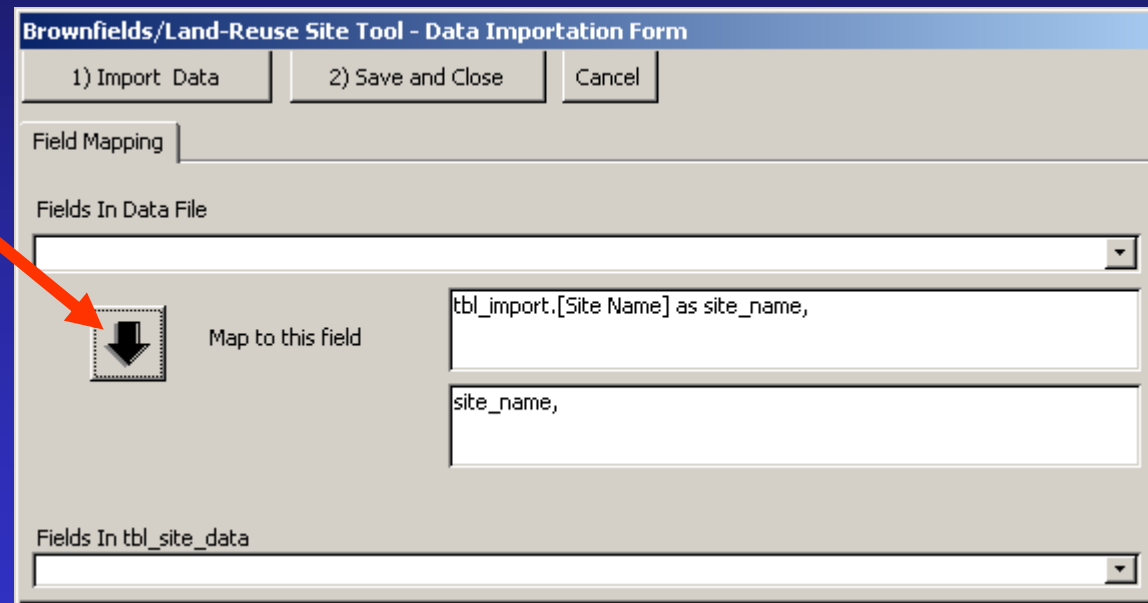
Fields In tbl\_site\_data

- site\_name
- site\_address
- site\_city
- site\_state
- site\_zip
- site\_lat
- site\_long
- size\_of\_site

# Import Inventory Data Function

Match each field in the data file to the fields in the table containing site data.

- 1) Select the field from the top list (which contain the fields in the data file)
- 2) Select the matching field from the second list
- 3) Click on the Large Black Down Arrow.
- 4) When finished, click on Save and Close
- 5) Note: each record must contain a unique field that must be matched up with “scenario” in the bottom list.




**Brownfields/Land Re-use Site Tool - Data Importation Form**

1) Import Data    2) Save and Close    Cancel

Field Mapping

Fields In Data File

 Map to this field

tbl\_import.[Site Name] as site\_name,  
site\_name,

Fields In tbl\_site\_data

## ***For more information***

ATSDR Brownfields/ Land Reuse Team:  
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