

**Attachment 1B.**

**Lead Environmental Notification Message**

**Mapping Guide 05172007.xls**

### Lead Environmental Investigation Notification Message Mapping Guide

**VERSION: The version of this Message Mapping Guide is Draft 0.5 dated 5/17/2007.**

This Message Mapping Guide describes the content and message mapping specifications for the fixed set of data elements used to communicate information to meet the requirements for Lead Environmental Investigation notifications to CDC. The intended audience for this document are the state/local and CDC programs and other public health related organizations interested in using the HL7 V2.5 case notification message specification for transmitting their data elements.

#### References

Version 1.0 of the *Message Specification Guide* is used to inform the mapping methodology for this guide.

*Notify CDC Message-All PAMs* from NEDSS PAM Platform Team. Last updated 1/26/2007.

*NEDSS PAM Platform Help Guide*, 11/30/2006.

#### Understanding the Organization of the Mapping Guide

|                               |  |
|-------------------------------|--|
| <u>Revisions</u>              | This tab is intended to provide revision control for updates made to the document.   |
| <u>Key</u>                    | Key to columns in each Tab/Worksheet   |
| <u>Subject-related</u>        | This tab provides the mapping methodology for the demographic variables requested by the program.  |
| <u>Lead Env Observations</u>  | This tab provides the mapping methodology for the investigation content requested by the program for this specific notification.   |
| <u>Notification Structure</u> | This tab provides the structural elements for the Notification. These variables are not negotiable. Default values are provided for HL7 structural elements that are required but not part of the surveillance data requested. |

#### Variables as Observations

Other than the variables that map to the Patient Identifier segment (see Subject-Specific tab), all other variables are passed as a series of OBX-Observation/Result segments that are logically tied to the OBR-Observation Request "section header" segment that immediately precedes it. This content presents the real differences between the messages since all types of Notifications are handled in a standard manner up to this point.

## Lead Environmental Investigation Notification Message Mapping Guide

## Key to columns in each Tab/Worksheet:

| Column                                     | Description  |
|--|--|
| <b>Program Variables Section</b>           |  |
| PHIN Variable ID                           | PHIN element UID drawn from the coding system PH_PHINQuestions_CDC   |
| Label                                      | Short name for the data element, which is passed in the message.   |
| Description                                | Description of the data element as in PHIN Questions.  |
| Data Type                                  | Data type for the variable response expected by the program area   |
| Prog. Req/Opt                              | Indicator whether the program specifies the field as:<br><b>R</b> - Required - mandatory for sending the message<br><b>O</b> - Optional - if the data is available it should be passed   |
| May Repeat                                 | Indicator whether the response to the data element may repeat. "Yes" in the field indicates that it may; otherwise, the field is not populated. Repeats require special processing.  |
| Coded Concepts                             | Concepts that the program uses in answer to a particular question that required a coded response.  |
| Value Set Name                             | Name of the pre-coordinated value set from which the response is drawn. The value sets and coding systems are accessible via the Public Health Information Network Vocabulary Access and Distribution Services at <a href="http://www.cdc.gov/PhinVSBrowser/StrutsController.do">http://www.cdc.gov/PhinVSBrowser/StrutsController.do</a> .  |
| Data Validation                            | Business rules used for validating data integrity  |
| <b>Message Mapping Methodology Section</b> |  |
| Message Context                            | Specific HL7 segment and field mapping for the element.  |
| HL7 Data Type                              | HL7 data type used by PHIN to express the variable.  |
| HL7 Usage                                  | Use of the field for PHIN. Indicates if the field is required, optional, or conditional in a segment. The only values that appear in the Message Mapping are:<br><ul style="list-style-type: none"> <li>• R – Required. Must always be populated</li> <li>• O – Optional. May optionally be populated.</li> </ul>  |
| HL7 Cardinality                            | Indicator of the minimum and maximum number of times the element may appear.<br><ul style="list-style-type: none"> <li>• [0..0] Element never present.</li> <li>• [0..1] Element may be omitted and it can have at most, one Occurrence.</li> <li>• [1..1] Element must have exactly one Occurrence.</li> <li>• [0..n] Element may be omitted or may repeat up to n times.</li> <li>• [1..n] Element must appear at least once, and may repeat up to n times.</li> <li>• [0..*] Element may be omitted or repeat for an unlimited number of times.</li> <li>• [1..*] Element must appear at least once, and may repeat unlimited number of times.</li> <li>• [m..n] Element must appear at least m, and at most, n times.</li> </ul> |
| Implementation Notes                       | Related implementation comments.   |

# Attachment 1B

## Lead Environmental Investigation Notification Message Mapping Guide

### Revisions

| Date      | Version      | Description   |
|-----------|--------------|---|
| 4/30/2007 | Draft v. 0.5 | Added "notification subject type" to the Notification Structural Data to bring the message structure in line with the Outbreak Management version of the ORU Case Investigation Report message. |
| 4/30/2007 | Draft v. 0.5 | PID segment is now required for all Notifications, and for environmental reporting, the PID contains the subject identifier and address.  |
| 4/30/2007 | Draft v. 0.5 | There is one subject-level observation, LOC026 Dwelling Type, which appears under the new OBR 1  that identifies Subject Type as Place.   |
| 4/30/2007 | Draft v. 0.5 | Changed all observations that use the CE value type in OBX-2 to CWE - coded with exception - to prepare for versioning of value sets. The additional fields are still optional at this point.   |
| 4/30/2007 | Draft v. 0.5 | Added "patient name type" to the Notification Structural data to account for the default value that must be provided in the message.  |
| 4/30/2007 | Draft v. 0.5 | LOC001 Local Address ID no longer treated as an observation. It is used as subject identifier mapped to PID-3 Patient Identifier List.  |
| 4/30/2007 | Draft v. 0.5 | All of the LOC-tagged address fields map to PID-11 Patient Address, just as any subject address   |
| 4/30/2007 | Draft v. 0.5 | No longer supporting the <i>RE - required but may be empty</i> concept. The Program Optional/Required column reflects what the source messaging document specifies.                             |
| 4/30/2007 | Draft v. 0.5 | Remapped NTF139 to NOT108 for use as the PHIN Variable ID used for MSH-10 Message Control ID (UID nor text appears in this context)   |

| Subject/Demographic Variables |                        |  |           |               |            |   |                |                 | Mapping Methodology   |               |           |                 |  |
|-------------------------------|------------------------|--|-----------|---------------|------------|---|----------------|-----------------|---|---------------|-----------|-----------------|--|
| PHIN Variable ID              | Label/Short Name       | Description  | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts  | Value Set Name | Data Validation | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes                   |
| LOC001                        | Local Address ID       | Identifier for subject location (entity ID).   | Text      | R             |            |   |                |                 | ⓅID-3 Patient Identifier List (does not pass Variable ID or label)  | ST            | R         | [1..1]          | Also on the Notification Structure tab |
| LOC005                        | Location City          | City name associated with the address for a subject location.  | Code      | O             |            |   | City           |                 | ⓅID-11.3 Patient Address - City (note that the variable ID and label do not appear in the message)          | ST            | O         | [0..1]          |  |
| LOC008                        | Location County        | County associated with the address for a subject location.   | Code      | O             |            |   | County         |                 | ⓅID-11.9 Patient Address - County (note that the variable ID and label do not appear in the message)        | IS            | O         | [0..1]          |  |
| LOC006                        | Location State         | State associated with the address for a subject location.  | Code      | O             |            |   | State          |                 | ⓅID-11.4 Patient Address - State (note that the variable ID and label do not appear in the message)         | ST            | O         | [0..1]          |  |
| LOC007                        | Location Postal Code   | Zip or Postal code associated with the address for a subject location.   | Text      | O             |            |   |                |                 | ⓅID-11.5 Patient Address - Postal Code (note that the variable ID and label do not appear in the message)   | ST            | O         | [0..1]          |  |
| LOC025                        | Location Census Tract  | Census tract associated with the address for a subject location.   | Text      | O             |            |   |                |                 | ⓅID-11.10 Patient Address - Census Tract (note that the variable ID and label do not appear in the message) | IS            | O         | [0..1]          |  |
| LOC026                        | Location Dwelling Type | Dwelling type associated with the address for a subject location. Dwelling type is used to classify the building and may include office, duplex, single family, etc. | Code      | O             |            | Mobile Home<br>Office<br>Duplex<br>Single Family<br>Multi-unit Dwelling | Dwelling Type  |                 | Ⓞbservation/OBX Segment under the Subject Type header (OBR segment) with this variable ID and label         | CWE           | O         | [0..1]          |  |

Lead Environmental Investigation Notification Variables

| Program-Specific Surveillance Variables |                                 |   |           |               |            |   |                                    |  | Mapping Methodology                                     |               |           |                 |                      |
|---|---------------------------------|---|-----------|---------------|------------|---|------------------------------------|--|---|---------------|-----------|-----------------|----------------------|
| PHIN Variable ID                        | Label/Short Name                | Description   | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts  | Value Set Name                     | Data Validation  | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes |
| INV111                                  | Referral Date for Investigation | Date the event or illness was first reported by the reporting source.                                 | Date      | R             | TS         |   |                                    | If the user enters the 'Date Referred' then that date must be >= Date Opened                                 | Observation/OBX Segment with this variable ID and label | TS            | O         | [0..1]          |                      |
| LEA113                                  | Risk Assessment Completed Date  | Date of risk assessment/inspection completion.  | Date      | O             | TS         |   |                                    | If the user enters the 'Risk Assessment Completed Date' then that date must be >= Risk Assessment Start Date | Observation/OBX Segment with this variable ID and label | TS            | O         | [0..1]          |                      |
| LEA114                                  | Investigation Reason Code       | Reason for opening the environmental investigation, such as a citizen request or a complaint response | Code      | O             | CE         | Primary Prevention<br>Citizen Request<br>Physician Order<br>Complaint Response<br>Relocation Address<br>Meets Persistently<br>EBLL Criteria<br>Safe Work Practice<br>Complaint<br>Community<br>Development Block<br>Grant (CDBG)<br>Meets Standard<br>Investigation Criteria<br>HUD | Environmental Investigation Reason |  | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |                      |

| Program-Specific Surveillance Variables |                                |   |           |               |            |                |                |   | Mapping Methodology                                     |               |           |                 |                      |
|---|--------------------------------|---|-----------|---------------|------------|----------------|----------------|---|---|---------------|-----------|-----------------|----------------------|
| PHIN Variable ID                        | Label/Short Name               | Description   | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts | Value Set Name | Data Validation   | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes |
| INV2006                                 | Investigation Close Date       | Investigation Close Date  | Date      | O             | TS         |                |                | If the user enters the 'Date Closed' then the user must also enter the Closure Reason   | Observation/OBX Segment with this variable ID and label | TS            | O         | [0..1]          |                      |
| LEA115                                  | No hazard identified indicator | Check this box to indicate that no hazard was identified at the property that is the focus of the investigation, but a new (alternate) location was identified for which an environmental investigation was opened or will be opened. | Boolean   | O             | IS         | T or F         |                | If the user indicates that no hazard was found in the investigation outcome then the system will not allow the entry of the Date Remediation Complete. If the user indicates 'No Hazard Identified' in the investigation outcome then the system will disable entry of 'No Hazard Identified - Alternate Location Identified,' 'Lead Paint,' 'Occupational Exposure,' and 'Lead Sources Other Than Lead Found.' | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          |                      |

| Program-Specific Surveillance Variables |   |   |           |               |            |                |                      |                 | Mapping Methodology                                     |               |           |                 |  |
|---|---|---|-----------|---------------|------------|----------------|----------------------|-----------------|---|---------------|-----------|-----------------|--|
| PHIN Variable ID                        | Label/Short Name                                  | Description   | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts | Value Set Name       | Data Validation | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes                     |
| LEA116                                  | No Hazard/Alternate Location Identified Indicator | Indicate whether a hazard was identified in the environmental investigation; check this box if no hazard was identified in the alternate location   | Boolean   | O             | IS         | T or F         |                      |                 | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          |  |
| LEA117                                  | Lead paint source identified indicator            | Indicate whether lead paint was identified as a hazard during the environmental investigation; <i>No</i> if no lead paint hazard was found at the property; <i>Yes</i> if a lead paint hazard was found at the property; <i>Unknown</i> if it is not known whether lead paint was a hazard at the property. | Code      | O             | CE         |                | Yes No Unknown (YNU) |                 | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |  |
| LEA118                                  | Interior Lead Paint Hazard Indicator              | Indicator of <i>interior lead paint hazard</i> . This is a derived field: if any Risk Assessment interior room/component combination has COMPONENT_HAZARD_IDENTIFIED_INDICATOR checked, then code as "true", otherwise leave blank.   | Boolean   | O             | IS         | T or F         |                      |                 | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          | Used IS datatype to pass the T or F only |
| LEA119                                  | Exterior Lead Paint Hazard Indicator              | Indicator of <i>exterior lead paint hazard</i> . This is a derived field: if any Risk Assessment exterior site/component combo has COMPONENT_HAZARD_IDENTIFIED_INDICATOR checked, then code as "true", otherwise leave blank.   | Boolean   | O             | IS         | T or F         |                      |                 | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          | Used IS datatype to pass the T or F only |
| LEA120                                  | Occupational Exposure                             | Investigation findings of sources - Occupational Exposure.  | Code      | O             | CE         | Yes No Unknown | Yes No Unknown (YNU) |                 | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |  |



| Program-Specific Surveillance Variables |   |   |           |               |            |  |                       |                 | Mapping Methodology                                     |               |           |                 |  |
|---|---|---|-----------|---------------|------------|--|-----------------------|-----------------|---|---------------|-----------|-----------------|--|
| PHIN Variable ID                        | Label/Short Name                                | Description   | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts   | Value Set Name        | Data Validation | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes                     |
| LEA121                                  | Lead sources other than paint                   | Investigation findings of sources - <i>lead sources other than paint</i> . This field may repeat.   | Code      | O             | CE         | Traditional Medicines<br>Hobbies<br>Occupations<br>Jewelry<br>Food<br>Toys<br>Industrial Hazard<br>Cosmetics | Non Paint Lead Source |                 | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |  |
| LEA122                                  | Occupational Exposure of other household member | Occupational exposure of other household member. This is a derived field: Code as "True" if PATIENT_OR_OTHER_HOUSEHOLD_MEMBER (under Occupation on Other Risk Factors Tab) = "Other Household Member", otherwise leave blank. | Boolean   | O             | IS         | T or F   |                       |                 | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          | Used IS datatype to pass the T or F only |
| LEA123                                  | Soil hazard indicator                           | Indicator of <i>soil hazard</i> . This is a derived field: Code as "true" if any SOIL_SITE_HAZARD_IDENTIFIED_INDICATOR checked, otherwise leave blank.  | Boolean   | O             | IS         | T or F   |                       |                 | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          | Used IS datatype to pass the T or F only |
| LEA124                                  | Water hazard indicator                          | Indicator of <i>water hazard</i> . This is a derived field: Code as "true" if any WATER_SITE_HAZARD_IDENTIFIED_INDICATOR checked, otherwise leave blank.  | Boolean   | O             | IS         | T or F   |                       |                 | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          | Used IS datatype to pass the T or F only |

| Program-Specific Surveillance Variables |                                   |   |           |               |            |  |                                   |   | Mapping Methodology                                     |               |           |                 |                      |
|---|-----------------------------------|---|-----------|---------------|------------|--|-----------------------------------|---|---|---------------|-----------|-----------------|----------------------|
| PHIN Variable ID                        | Label/Short Name                  | Description   | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts   | Value Set Name                    | Data Validation   | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes |
| LEA101                                  | Case Investigation Closure Reason | If the value specified in Case Status is <i>Closed</i> , choose the reason why the case was closed. | Code      | O             | CE         | Case Opened in Error<br>False Positive<br>Moved<br>Out of Compliance<br>Lost to<br>Follow-Up/Unable to Locate<br>Uncooperative or refused<br>Closure Criteria Met<br>Moved Out of Jurisdiction/State<br>Remediation Complete<br>No Hazard Found<br>House Demolished<br>Inspection Refused<br>No Longer Rental Unit<br>Permanent Injunction<br>Insufficient Funds - Remediation Not Complete<br>Administratively Closed | Case Investigation Closure Reason |   | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |                      |
| LEA125                                  | Date remediation due              | Due date of remediation.  | Date      | O             | TS         |  |                                   | If the user enters the 'Date Remediation Due' then that date must be >= Date Opened | Observation/OBX Segment with this variable ID and label | TS            | O         | [0..1]          |                      |

| Program-Specific Surveillance Variables |  |  |           |               |            |                |                |  | Mapping Methodology                                     |               |           |                 |  |
|---|--|--|-----------|---------------|------------|----------------|----------------|--|---|---------------|-----------|-----------------|--|
| PHIN Variable ID                        | Label/Short Name                                       | Description  | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts | Value Set Name | Data Validation  | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes                     |
| LEA126                                  | Date address hazard remediation or abatement completed | Date address hazard remediation or abatement completed.  | Date      | O             | TS         |                |                | If the user enters the 'Date Completed' then that date must be >= Date Referred unless Date Referred not entered | Observation/OBX Segment with this variable ID and label | TS            | O         | [0..1]          |  |
| LEA127                                  | Date clearance testing completed                       | Date clearance testing completed.  | Date      | O             | TS         |                |                | If the user enters the 'Completion Date' for Clearance Testing then that date must be >= Date Opened             | Observation/OBX Segment with this variable ID and label | TS            | O         | [0..1]          |  |
| LEA128                                  | Clearance testing performed indicator                  | Indicator of <i>clearance testing performed</i> . This is a derived field: if CLEARANCE_TESTING_COMPLETE_INDICATOR = "Yes" then code as "True". If CLEARANCE_TESTING_COMPLETE_INDICATOR = "No" or is blank, AND any sample is entered for clearance testing, then code as "True". Otherwise code as blank. | Boolean   | O             | IS         | T or F         |                |  | Observation/OBX Segment with this variable ID and label | IS            | O         | [0..1]          | Used IS datatype to pass the T or F only |
| LEA129                                  | Clearance testing performed date                       | Date clearance testing performed. This is a field derived from the Earliest Date Sample Obtained for Clearance Testing.  | Date      | O             | TS         |                |                |  | Observation/OBX Segment with this variable ID and label | TS            | O         | [0..1]          |  |

| Program-Specific Surveillance Variables |                          |   |           |               |            |                             |                             |                 | Mapping Methodology                                     |               |           |                 |                      |
|---|--------------------------|---|-----------|---------------|------------|-----------------------------|-----------------------------|-----------------|---|---------------|-----------|-----------------|----------------------|
| PHIN Variable ID                        | Label/Short Name         | Description   | Data Type | Prog. Req/Opt | May Repeat | Coded Concepts              | Value Set Name              | Data Validation | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes |
| LEA130                                  | Clearance testing result | Result of clearance testing. This is a derived field: if CLEARANCE_TESTING_COMPLETE_INDICATOR = "Yes" then code as "Passed". If "no" then code as "Failed"; if blank, and any sample is entered for clearance testing, then code as "Unknown". If blank and no samples are entered, then leave blank. | Code      | O             | CE         | Passed<br>Failed<br>Unknown | Passed<br>Failed<br>Unknown |                 | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |                      |
| NOT109                                  | Reporting State          | State reporting the notification.   | Code      | R             | CE         |                             | State                       |                 | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |                      |
| <b>ABLES DATA</b>                       |                          |   |           |               |            |                             |                             |                 |   |               |           |                 |                      |
| INV154                                  | State of Exposure        | If the disease or condition was imported, indicate the state in which the disease was likely acquired.  | Code      | O             | CE         |                             | State                       |                 | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |                      |
| INV156                                  | County of Exposure       | If the disease or condition was imported, this field will contain the county of origin of the disease or condition.   | Code      | O             | CE         |                             | County                      |                 | Observation/OBX Segment with this variable ID and label | CWE           | O         | [0..1]          |                      |

These variables are not negotiable. Default values are provided for HL7 structural elements that are required but not part of the surveillance data requested.

| Notification Variables |                      |  |           |             |            |                            |                             |                 | Mapping Methodology   |               |           |                 |  |
|------------------------|----------------------|--|-----------|-------------|------------|----------------------------|-----------------------------|-----------------|---|---------------|-----------|-----------------|--|
| PHIN Variable ID       | Label/Short Name     | Description  | Data Type | CDC Req/Opt | May Repeat | Coded Concepts             | Value Set Name              | Data Validation | Message Context   | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes   |
| NOT108                 | Notification ID      | The unique identifier for the notification record. For the V2 Case Notification, this concept maps to the HL7 attribute MSH-10 Message Control ID. No UID or label is passed in the message.   | String    | R           |            |                            |                             |                 | MSH-10-Message Control ID. No UID or label is passed in the message.  | ST            | R         | [1..1]          |  |
| LOC001                 | Local address ID     | Identifier for subject location (entity ID).   | String    | R           |            |                            |                             |                 | PID-3.1 Patient Identifier List – ID Number<br>PID-3.4 Assigning Authority format<br><localID&OID&ISO><br>Does not pass Variable ID or label. | CX            | R         | [1..1]          |  |
| NOT099                 | Subject Type         | Type of subject for the notification.  | Coded     | R           |            | Place Subject              | Notification Section Header |                 | OBR 1 : Maps to the HL7 attribute OBR-4-Universal Service ID. No UID or label is passed in the message.                                       | CE            | R         | [1..1]          | Literal Value: 'LOCSUBJ^Location/Place Subject^2.16.840.1.114222.4.5.274'                  |
| NOT101                 | Notification Type    | Type of notification. Main notification types are "Individual Case", "Environmental", "Summary", and "Laboratory Report".  | Coded     | R           |            | Environmental Notification | Notification Section Header |                 | OBR 2 : Maps to the HL7 attribute OBR-4-Universal Service ID. No UID or label is passed in the message.                                       | CE            | R         | [1..1]          | Literal Value: 'ENVNTE^Environmental Investigation Notification^2.16.840.1.114222.4.5.274' |
| NOT103                 | Date First Submitted | Date the notification was first sent to CDC. This value does not change after the original notification. For the V2 Case Notification, this concept maps to the HL7 attribute OBR-7-Observation Date/time. No UID or label is passed in the message. | Date/time | R           |            |                            |                             |                 | Maps to the HL7 attribute OBR-7-Observation Date/time. No UID or label is passed in the message.  | TS            | R         | [1..1]          | <same value in each OBR instance>  |

| Notification Variables |                  |   |           |             |            |                      |  |                 | Mapping Methodology  |               |           |                 |   |
|------------------------|------------------|---|-----------|-------------|------------|----------------------|--|-----------------|--|---------------|-----------|-----------------|---|
| PHIN Variable ID       | Label/Short Name | Description   | Data Type | CDC Req/Opt | May Repeat | Coded Concepts       | Value Set Name   | Data Validation | Message Context  | HL7 Data Type | HL7 Usage | HL7 Cardinality | Implementation Notes  |
| NOT106                 | Date of Report   | Date/time this version of the notification was sent. It will be the same value as NOT103 for the original notification. For updates, this is the update/send date/time. | Date/time | R           |            |                      |  |                 | Maps to the HL7 attribute OBR-22-Result Report/Status Chg Date/time. No UID or label is passed in the message. | TS            | R         | [1..1]          | <same value in each OBR instance>   |
| INV169                 | Condition Code   | Condition or event that constitutes the reason the notification is being sent.  | Coded     | R           |            | 32010 Lead Poisoning | Nationally Notifiable Disease Surveillance System (NNDSS) & Other Conditions of Public Health Importance |                 | Maps to HL7 attribute OBR-31-Reason for Study. The UID and label are not passed in the message.                | CE            | R         | [1..1]          | Default value in each OBR instance: '32010^Lead Poisoning^2.16.8 40.1.114222.4.5.255' |