

Incorporating offsets and trading reporting into NEIEN

The table shows the data fields required for calculating the loads associated with offsets and trades, and the state-basin and sector that those loads are credited. Suggestions are also made for how the data could fit in the existing NEIEN schema.

Data	Element	XML Example
Trading Information	Name: BMPTrade Type: npsbmp:TradeType File: NPSBMP_Trade_v1.1.xsd	<pre> <xsd:complexType name="NPSBMPIdentityType"> <xsd:sequence> <xsd:element ref="npsbmp:DataSource"/> <xsd:element ref="npsbmp:BMPIdentity"/> <xsd:element ref="npsbmp:ProjectBinaryObject" minOccurs="0" maxOccurs="unbounded"/> <xsd:element ref="npsbmp:GeographicLocation"/> <xsd:element ref="npsbmp:StateCountyFIPSIdentifier"/> <xsd:element ref="npsbmp:EventStatus" maxOccurs="unbounded"/> <xsd:element ref="npsbmp:BMPFinancialMeasure" minOccurs="0" maxOccurs="unbounded"/> <xsd:element ref="npsbmp:BMPComponentIdentity" minOccurs="0" maxOccurs="unbounded"/> <xsd:element ref="npsbmp:Trading" minOccurs="0" maxOccurs="unbounded"/> </xsd:sequence> </xsd:complexType> <xsd:complexType name="TradeType"> <xsd:sequence> <xsd:element ref="npsbmp:BMPNameData"/> <xsd:element ref="npsbmp:NPSMeasure" maxOccurs="unbounded"/> <xsd:element ref="npsbmp:BMPTradeGenerator" minOccurs="0"/> <xsd:element ref="npsbmp:BMPTradeBuyer"/> <xsd:element ref="npsbmp:BMPTradeBeginDate"/> <xsd:element ref="npsbmp:BMPTradeEndDate"/> <xsd:element ref="npsbmp:BMPTradePermit"/> <xsd:element ref="npsbmp:BMPTradeSector"/> <xsd:element ref="npsbmp:BMPTradeConstituent" maxOccurs="unbounded"/> <xsd:element ref="npsbmp:BMPTradeAppliedLocation"/> </xsd:sequence> </xsd:complexType> </pre>
BMP name	Name: npsbmp:BMPNameData Type: npsbmp:BMPNameDataType File: NPSBMP_NPSBMPName_v1.0.xsd	<pre> <npsbmp:BMPNameData> <npsbmp:BMPName>Urban Nutrient Management Plan</npsbmp:BMPName> <npsbmp:BMPNameType> <npsbmp:BMPNameTypeCode>ST</npsbmp:BMPNameTypeCode> <npsbmp:BMPNameTypeCodeDescription>State Name</npsbmp:BMPNameTypeCodeDescription> </npsbmp:BMPNameType> </npsbmp:BMPNameData> </pre>

Amount of BMP used in the offset/trade	Name: npsbmp:NPSMeasure Type: npsbmp:NPSMeasureType File: NPSBMP_Measure_v1.0.xsd	<pre> <npsbmp:NPSMeasure> <npsbmp:MeasureName>Acres</npsbmp:MeasureName> <npsbmp:MeasureValue>200</npsbmp:MeasureValue> <npsbmp:MeasureUnit> <npsbmp:MeasureUnitCode>ACRE</npsbmp:MeasureUnitCode> <npsbmp:MeasureUnitName>Acres</npsbmp:MeasureUnitName> </npsbmp:MeasureUnit> </npsbmp:NPSMeasure> </pre>
BMP reporting status, Begin and End dates.	Name: npsbmp:BMPTradeBeginDate, npsbmp:BMPTradeEndDate Type: xsd:date File: NPSBMP_Trading_v1.1.xsd	<pre> < npsbmp:BMPTradeBeginDate > 2015-01-01 </ npsbmp:BMPTradeBeginDate > < npsbmp:BMPTradeEndDate > 2017-12-31</ npsbmp:BMPTradeEndDate > </pre>
NPDES Permit Number	Name: npsbmp:BMPTradePermit Type: xsd:string File: NPSBMP_Trading_v1.1.xsd	<pre> < npsbmp:BMPTradePermit >MDG123456 </ npsbmp:BMPTradePermit > </pre>
Credit generator name	Name: npsbmp:BMPTradeGenerator Type: npsbmp:ContactEntityDetails File: NPSBMP_ContactEntityDetails_v1.0.xsd	<pre> < npsbmp:BMPTradeGenerator > <npsbmp:MailingAddress> <npsbmp:MailingAddressText>123 XXX Street,</npsbmp:MailingAddressText> <npsbmp:MailingAddressCityName>XXXXX</npsbmp:MailingAddressCityName> </npsbmp:MailingAddress> <npsbmp:StateIdentity> <npsbmp:StateName>District Of Columbia</npsbmp:StateName> </npsbmp:StateIdentity> <npsbmp:AddressPostalCode>20002</npsbmp:AddressPostalCode> <npsbmp:CountryIdentity> <npsbmp:CountryCode>USA</npsbmp:CountryCode> <npsbmp:CountryName>United States Of America</npsbmp:CountryName> </npsbmp:CountryIdentity> </npsbmp:MailingAddress> <npsbmp:Telephonic> <npsbmp:TelephoneNumberText>1112223333</npsbmp:TelephoneNumberText> </npsbmp:Telephonic> <npsbmp:ElectronicAddress> <npsbmp:ElectronicAddressText>a@b.com</npsbmp:ElectronicAddressText> </npsbmp:ElectronicAddress> <npsbmp:IndividualIdentity> <npsbmp:IndividualIdentifier>1</npsbmp:IndividualIdentifier> <npsbmp:FirstName>XXXX</npsbmp:FirstName> <npsbmp:LastName>XXXX</npsbmp:LastName> </npsbmp:IndividualIdentity> </ npsbmp:BMPTradeGenerator > </pre>

Credit Buyer	Name: npsbmp:BMPTradeBuyer Type: npsbmp:ContactEntityDetails File: NPSBMP_ContactEntityDetails_v1.0.xsd	<u><npsbmp:BMPTradeBuyer ></u> <u><npsbmp:MailingAddress></u> <npsbmp:MailingAddressText>123 XXX Street,</npsbmp:MailingAddressText> <npsbmp:MailingAddressCityName>XXXXX</npsbmp:MailingAddressCityName> <u><npsbmp:StateIdentity></u> <npsbmp:StateName>District Of Columbia</npsbmp:StateName> </npsbmp:StateIdentity> <npsbmp:AddressPostalCode>20002</npsbmp:AddressPostalCode> <u><npsbmp:CountryIdentity></u> <npsbmp:CountryCode>USA</npsbmp:CountryCode> <npsbmp:CountryName>United States Of America</npsbmp:CountryName> </npsbmp:CountryIdentity> </npsbmp:MailingAddress> <u><npsbmp:Telephonic></u> <npsbmp:TelephoneNumberText>1112223333</npsbmp:TelephoneNumberText> </npsbmp:Telephonic> <u><npsbmp:ElectronicAddress></u> <npsbmp:ElectronicAddressText>a@b.com</npsbmp:ElectronicAddressText> </npsbmp:ElectronicAddress> <u><npsbmp:IndividualIdentity></u> <npsbmp:IndividualIdentifier>1</npsbmp:IndividualIdentifier> <npsbmp:FirstName>XXXX</npsbmp:FirstName> <npsbmp:LastName>XXXX</npsbmp:LastName> </npsbmp:IndividualIdentity> </npsbmp:BMPTradeBuyer >
Location where reduction is applied	Name: npsbmp:BMPTradeAppliedLocation Type: npsbmp:GeographicLocationType File: NPSBMP_GeographicLocation_v1.0.xsd	<u><npsbmp:BMPTradeAppliedLocation ></u> <LatitudeMeasure>39.02748</LatitudeMeasure> <LongitudeMeasure>-76.83337</LongitudeMeasure> </ npsbmp:BMPTradeAppliedLocation >
Sector where reduction is applied	Name: npsbmp:BMPTradeSector Type: xsd:string File: NPSBMP_Trading_v1.1.xsd	< npsbmp:BMPTradeSector > forest </ npsbmp:BMPTradeSector >
Traded Constituency	Name: npsbmp:BMPConstituent Type: xsd:string File: NPSBMP_Trading_v1.1.xsd	< npsbmp:BMPTradeConstituent >Nitrogen</ npsbmp:BMPTradeConstituent >